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APPENDIX C

ENGINEERING COST ANALYSIS FOR FLOOR I AND BTF OPTIONS I - 4

C.1 BACKGROUND

MACT stack gas emissions standards for a variety of hazardous air pollutants (HAPs) (including PM, LVM, SVM, Hg, HCI, Cl2, PCDD/PCDF, CO, and THC) have been proposed for specific existing hazardous waste burner facilities. These facilities include cement kilns, light weight aggregate kilns (LWAKS) and incinerators. For an individual HAP, proposed MACT standards include both those limiting the emissions of that HAP to a level designated as Floor I and to a level designated as Beyond the Floor (BTF). Appendix C-A lists both the proposed Floor and BTF emission limits for each HAP as specified for this analysis. As part of the rule making process, EPA is interested in the cost to industry such standards may impose. As part of this, of interest is the cost incurred by a facility to simultaneously meet specified standards for each HAP of concern. One cost is that incurred by a facility to meet Floor I standards for each HAP simultaneously. By definition, BTF levels are those which are more stringent than the originally designated Floor levels. Therefore, there is a different cost incurred by a facility to meet the BTF standards for each HAP simultaneously. Additionally, a facility may be required to meet BTF levels for only certain HAP, while for others the facility may only be required to meet the originally specified floor levels. To this end, different scenarios of Floor and BTF levels for each HAP were grouped into various BTF Options. To meet either the proposed MACT Floor standards for all HAPs simultaneous or to meet a specified BTF option, certain facilities may be required to upgrade or retrofit their existing air pollution control system (APCS). To estimate the cost of these upgrades and retrofits, the analysis as described in the following section was used.

C.2 OBJECTIVE AND APPROACH

The objective of this analysis was to estimate the APCD cost associated with proposed specified MACT standards for a variety of HAPs (listed above). The approach is described in

detail in the following sections. The outline of the procedure used is a follows:

- Identification of the emission levels of each HAP for each facility for which data was collected.
- Determination of the amount of emissions reduction required to meet the specified MACT standard for each HAP.
- Selection of a control strategy to achieve the required emissions reduction to meet the specified MACT standard for each HAP simultaneously.

- Group facilities into Model Plant Groups based on like selected control strategies.

- Determine the APCD retrofit and/or upgrade cost to each Model Plant Group using available cost models and based on the characteristics of the facilities assigned within the Model Plant Group.

This procedure is iterated, initially using no feed rate control and then using 25% hazardous waste feed control. This iteration is used to incorporate the use of feed control as a possible method of reducing HAP emissions. The impact of feed rate control is shown in the first step of the procedure in that the emission level for each HAP is adjusted to account for feed rate control. This is described further in a following section. The above procedure is also individually performed for the Floor or each BTF option of interest. For example, the above procedure is iterated twice to determine the cost of meeting BTF Option IA while using either 0% or 25% hazardous waste feed rate control. BTF Option IA is where each HAP is controlled to its specified Floor emission standard level and additionally, dioxin/furans are controlled to .5 ng/dscm.

C.2.1 Identification of HAP Emission Levels

The reported stack gas emissions rate (RSERi) for each HAP was compiled for all facilities for which trial bum test data was collected. A single emission rate value is used for each HAP for each facility by taking the arithmetic mean over all test condition runs of the median emission rate. In Section C.3, in Tables C-1 and C-2, RSERs are given for each facility and each HAP. It was recognized that feed rate control is one way in which facilities may control their emissions. To account for this, the RSERs are adjusted based on the impact a decrease in hazardous waste feed rate would have on the reported emissions. Specifically, Table C-1 shows adjusted stack gas emission rates (ASERi) for each HAP for each facility when no feed rate control is employed. Table C-2 shows the adjusted stack gas emission rates for each

HAP for each facility when utilizing 25% control of the hazardous waste feed rate. In addition, for many facilities, a complete set of stack gas emission rate data is not available (e.g., a facility may have PCDD/PCDF, HCI, PM, and CO and THC stack gas emission data, but does not have Hg, SVM, LVM, or C]2 data). Where data is not available, a "nr" notation is included.

C.2.2 Determination of the Required Emissions Reduction to Meet the Specified HAP Levels

For each hazardous waste burning facility and for each HAP, the amount of emissions reduction required to reach either MACT floor or BTF levels was determined. The amount of reduction required for each HAP was determined as:

%RRi (ASERi - Limiti) / ASERi 100

where: %RRi = % reduction required for individual HAPi to meet the MACT level ASERi adjusted stack gas emissions rate for HAPi

Limiti = MACT floor or BTF level for an individual HAPi

Required reductions (%RRs) are shown in Section C.3 in Tables C- Ia, C-2a, and Section C.4 in Tables C-3a, C-4a, C-5a, C-6a, C-7a, C-8a, C-9a, C- 1Oa, C-11 a, C-12a, C- 13a, C- 14a, C15a and C- 1 6a. The specific table pertains to the amount of emissions reduction required to meet the Floor or BTF option in question while using either 0% or 25% hazardous waste feed control. Two %RRs values are show for each HAP. In the first column, the %RR based on the

feed adjusted ASER is given; in the second column, negative ASERs are set at 0, and substituted %RRs are inserted in the place of "nr" (those ASERs where data is unavailable). In such cases where substitution is need, a %RR is randomly assigned (either as 0, 25, 50 or 75%) based on the %RR distribution of facilities in the same source category for which data for the specific

red Emissions Reduction

The %RRs are used to determine on a facility-by-facility basis which HAPs require additional control. Control strategies are assigned to each facility based on the existing APCS and the HAP types and %RR levels that are required as:

None: If the %RR is = 0, no additional retrofit or upgrade control is required for that specific HAP. If the %RR for all HAPs is 0, then no additional facility upgrading is required to meet the specified limits for all HAPs simultaneously.

Retrofit[Upgrade: If the %RR is > 0, additional control, either through retrofit/upgrade

HAP that is missing has been collected.

C.2.3 Selection of the Control Strategy to Achieve the Requi

of the existing APCS or add-on of a new air pollution control system/device, is required for that specific HAP. Determination of the appropriate control action is based on both the type of existing equipment and the %RR level, and is categorized into either Design, Operation, and/or Maintenance (D/O/M) of existing equipment, or installation on new equipment by:

0 Design/Operation/Maintenance (D/O/M) modifications of existing equipment:

If an existing device/system is capable of providing active control of the HAP of interest, then D/O/M practices may be able to meet the specified level. D/O/Ms are generalized into two categories ("small" or "moderate"), depending upon the %RR:

"Small" D/O/M: if %RR < 25%, a "small" DOM on existing equipment that is capable of controlling the HAP of interest is required.

"Moderate" D/O/M: If 25 < %RR < 75%, a "moderate" DOM on existing equipment consisting of a major redesign or modification of existing equipment that is capable of controlling the HAP of interest is required.

A new device for control of the specific HAP

No existing device is capable of controlling the HAP of interest and the %RR > 0.

The %RR is > 75%. If the %RR is > 75%, a new piece of control equipment is required, even if an existing one which

is capable of controlling the HAP is currently in place (e.g., if a facility with an existing FF needs > 75% reduction in its PM level, it is assumed that the facility would need a new FF to achieve the specified MACT level).

Selected control strategies are shown in Section C.3 in Tables C-Ib, C-2b, and Section C.4 in Tables C-3b, C-4b, C-5b, C-6b, C-7b, C-8b, C-9b, C- 1Ob, C-11b, C- 12b, C-13b, C-14b, C-1 5b and C-16b. The specific table pertains to the selected control strategy for each facility to meet the Floor or BTF option in question while using either 0% or 25% hazardous waste feed control.

Installation of New Equipment:
is required if either:

ESP Small

Moderate

FF Small

C.2.3.1 D/O/M Selection

The ability of a facility to use DOM to control a specific HAP is selected only when the required amount of reduction is small (<25%) or moderate (25-75%) and the facility already has the existing APCD for which the DOM is specified. The following DOM designation are used when determining specific DOM strategies for each of the different HAPs.

A small DOM to an existing ESP can be represented by the addition of humidification to the ESP. Note that improved electrical control has a similar impact.

A moderate DOM to an ESP can be accomplished by the installation of an additional field (A 133 ft' of additional SCA was assumed based on an average required to increase collection efficiency from 99 to 99.8%).

A small DOM to a FF can be achieved by either optimization of the cleaning cycles or test and maintenance procedures to eliminate leak paths (i.e. florescence smoke test to check for leaks).

It is assumed that a moderate DOM to a FF would be achieved by the use of more hardware oriented changes, specifically, the installation of improved bags (w/ PTFE membrane).

It is assumed that high energy wet scrubbers can be represented by a venturi scrubber since this is the primary type of WSHE In use. Other types include reverse jet scrubber and hydrosonic scrubber. High energy wet scrubbers can be used to control PM and to some extent acid gas. A small DOM to a venturi scrubber can be accomplished by an increase in differential pressure, an increase in L/G ratio, or enhanced maintenance.

A moderate DOM to a venturi scrubber can be represented by an increase in differential pressure to increase efficiency for collection of fine PM.

It is assumed that low energy wet scrubbers can be represented by a packed bed since this is a typical type in use. Other type of WSLE is a spray tower. A small DOM to a WSLE can be accomplished by an increase in the L/G ratio, enhanced pH control, or refurbish.

Moderate

WSHE Small

Moderate

WSLE Small

Moderate A moderate DOM of a low energy wet scrubber can be achieved by the

installation of structured or smaller packing or an increase in the amount of sorbent to improve collection efficiency.

Comb. A DOM on a combustor was assumed to be a modification of the burner/combustion zone to improve HC/CO burnout. Such a DOM was assumed to only be applicable to incinerators since the condition of the combustor is inaetly tied to product quality for cement kilns and LWAKs.

C.2.3.2 New Device Selection

The following guidelines are used to determine specific control strategies for each of the different HAPs when a new device is required.

C.2.3.2.1 *PM, LVM, and SVM Control:* An FF is added in all cases where a new device is required for PM, LVM, and SVM control due to economics over an ESP. An **IWS,**

ESP, and high energy wet scrubbers **(WSHE)** are also capable of control of these HAPs. It is assumed that a FF can be placed in series directly behind any existing PM control device within a "dry" system. It is assumed that a FF can be retrofitted directly into an existing "wet" system, upstream of the wet scrubbing system. Depending on site-specific factors such as flue gas temperature leaving the combustor and the existing flue gas cooling system, equipment, and physical layout, additional flue gas cooling equipment (e.g., water quench or air dilution) may be required in order to integrate the new fabric filter upstream of the existing wet scrubber system. Also, for existing wet systems that required additional LVM, SVM, and PM control, a wet ESP or IWS may be easier to incorporate since it can be added directly onto the back end of the existing wet scrubbing system. The difference between the current analysis would then be the cost differential between a fabric filter plus the appropriate cooling device and a wet ESP or IWS. For the analysis, it was assumed that this cost differential is small.

C.2.3.2.2 *Acid Gas Control:* Acid gas control pertains to the control of both HCI and C'2- The degree of control by a device of these two HAPs can vary. The following guidelines were used in the selection of a new acid gas device:

> HCI: Either wet (low energy such as PT or IWS) or dry scrubbing is possible when a new device is required for HCI control. Wet scrubbing is usually selected due to economics.
>
> Cl2 Wet scrubbing with alkaline pH reagent required.

In addition, for LWAKs a spray tower (ST) was usually selected over the use of a packed tower (FIT) since these facility types typically had a much higher level (ppm) of acid gas than the others. Due to econimic reasons the ST is advantageous for LWAKS. Specifically with the use of a spray tower, lime may be used instead of the more expensive NaOH. Normally, lime is not used in packed towers since it may cause problems with the packing (i.e., plugging).

C.2.3.2.3 *Hg Control:* Carbon injection or carbon bed is added whenever

Hg control is required. Although many wet scrubbers have demonstrated high (> 90%) control, many others have not shown any (O%) control. Additionally, the capture of Hg in wet scrubber may not be desirable, since it would complicate the treatment and disposal of scrubber blowdown (transferring Hg flue gas emissions to soluble blowdown). For effective carbon injection applications, the flue gas temperature must be below 400˚F. If it is above 400˚F, an addition of a water quench is required to achieve this. Additionally:

> Incinerators and Boilers: dry PM control device (FF or ESP) is required (either existing or the addition of a new one if not existing).
>
> CKs: Based on industry comments, a new dry PM control device is required (assumed to be FF), dedicated to capturing carbon. Cement kiln dust recycle is thus not affected.
>
> LWAKS: Like CKs, a new dry PM control device is required (assumed to be FF), dedicated to capturing carbon. LWAK aggregate product is thus not affected.

Carbon injection is usually chosen compared with carbon beds due to economics. Carbon beds are only economical on small sources. Additionally, it is assumed that carbon injection can not be performed immediately upstream of a wet PM control system (i.e., the carbon must be captured in

a dry PM control device), and that the application of carbon injection or carbon beds downstream of a wet system requires flue gas reheat to a temperature above the dew point.

C.2.3.2.4 *PCDDIPCDF:* For PCDD/PCDF control, two techniques can be used,

Temperature control of existing "dry" PM control device: CETRED and technology transfer from MWCs and MWIs has demonstrated that a reduction in operating temperature of a dry PM control device can reduce the PCDD/PCDF emissions level. Figure C-1 shows the PCDD/PCDF control % as a function of the temperature reduction; this is based on the assumption of a factor of 10 reduction in PCDD/PCDF for every 150˚F reduction in

separately or in combination, if required:

temperature, and is assumed to be valid in the temperature range of 350-750˚F.

- Carbon injection or carbon beds: To get additional PCDD/PCDF control, the use of either carbon injection or carbon beds is required. The same carbon injection and carbon bed limitations that were discussed above for Hg control are applicable to the application for PCDD/PCDF control.

C.2.3.2.5 *THCICO Control:* An afterburner (50% of primary heat input using natural

gas) is selected for THC/CO control technology for boilers and incinerators when a > 75% reduction is required. For boilers and incinerators where < 75% reduction is required, existing burner design, operation, and maintenance (DOM) is assumed ("DOM combustor"). For CK and LWAKS, it is assumed that all facilities are currently meeting the floor, since the floor is at the existing standard. To achieve "Beyond-the-floor" levels, an afterburner is required. When an afterburner is selected, a water quench system must also be added to cool the afterburner gases prior to entry into additional air pollution control equipment or release to the atmosphere.

C.2.3.3 Multiple HAP Control

Some DOM and/or new devices are capable of controlling two or more HAPs simultaneously. Many facilities may require the control of two or more different HAPs such as PM and Cl2 when attempting to meet standards for each HAP simultaneously. In these cases, engineering judgement is used to select the most cost effective option (i.e., the use of one device as opposed to the use of two devices to control two different HAPs) when the control of multiple HAPs is required. For example:

- When both PM and HCI control is required, an IWS or wet ESP, which has capabilities to control both of these HAPs simultaneously, is selected.
- Carbon injection or beds can control both Hg and PCDD/PCDF.
- A fabric filter which may be required as part of a carbon injection system will also increase the capture performance of PM, SVM, and LVM.

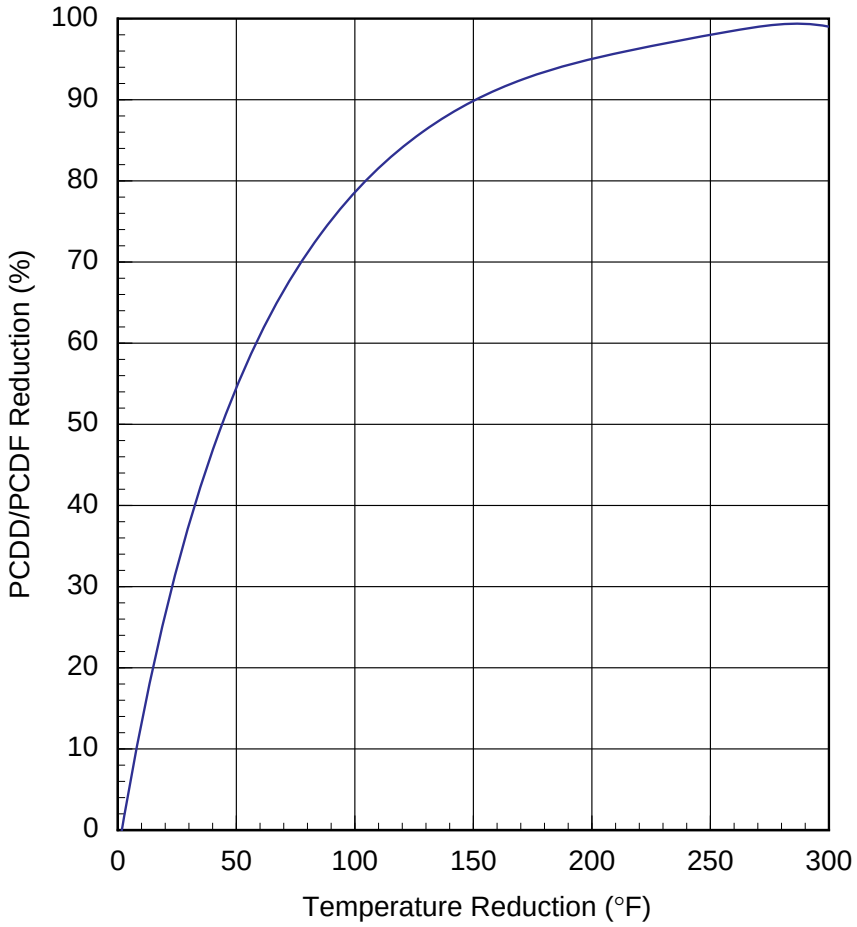

Figure 2-1. Acheivable PCDD/PCDF control as a function of PM air pollution control device temperature reduction (valid in a temperature range of 350-750°F).

- A wet scrubber may control both HCI and Cl2.

C.2.3.4 Upgrade/Retrofit APCS Requirements

Using the above discussed procedures, the most cost effective retrofit solution to simultaneously meet all HAP standard levels for the floor or BTF Option in question is determined for each hazardous waste burning facility. The selection is shown in the last column of Table C-Ib. As stated earlier, if the %RR for all HAPs is 0, then no additional facility upgrading is required to meet the specified limits for all HAPs simultaneously. For many facilities one or a combination of DOMs and new devices will be required to control one or more HAPs for which the facility does not currently meet the proposed levels.

C.2.4 Define Model Plants

Each of the facilities in Table Ic are grouped into categories based on common retrofit/upgrade requirements (i.e., None, Add FF, Moderate DOM on existing ESP, etc.). Each of these defines a "Model Plant Group". Model Plant Groups and the facilities associated with that group are shown in Section C.3 in Tables C-1c, C-2c, and Section C.4 in Tables C-3c, C-4c, C-5c, C-6c, C-7c, C-8c, C-9c, C-1Oc, C-11c, C-12c, C-13c, C-14c, C-15c and C-16c.. The specific table pertains to the Model Plant Groups as needed to meet the Floor or BTF option in question while using either 0% or 25% hazardous waste feed control. The definition of Model Plants Groups are not common across source categories. Appendix C-C defines each Model Plant Groups for each source category.

Each facility within a source group has been assigned into a size classification with a representative flue gas flowrate (in acfm). Cement kilns were divided into two size classifications (S and L) with average flue gas flowrates of 147,000 and 370,000 acfm, respectively. Incinerators were divided into three size classifications (S, M and L) with average flue gas flowrates of 3,900, 22,100 and 60,800 acfm, respectively. All light weight aggregate kilns were similar in size and were assigned to a single size classification (M) with an average flue gas flowrate of 40,500 acfm. The attached Figures C-2, C-3 and C-4 show the distribution of flue gas flowrates within each size classification for each source category, respectively. The size classifications were carried through to the Model Plant Groups in that the Groups are subdivided into subgroups based on facility size in acfm (i.e, S M or L).

Cl.2.5 Determine Model Plant Costs

For each of the Model Plant Groups defined in Table C-1c, the cost of the engineering retrofit/upgrade associated with that group are determined. The annualized operating costs are based on capital, installation, operation and maintenance costs, and capital recovery. The total cost to the national population of hazardous waste burners in each model

plant category is determined by multiplying each of the three individual sub-category model plant costs by the number of facilities in each of the size ranges, and adding the three subcategories. Costs are shown in Section C.3 in Tables C-Id, C-2d, and Section C.4 in Tables C-3d, C-4d, C-5d, C-6d, C-7d, C-8d, C-9d, C-1Od, *C-11*d, C-12d, C-13d, C-14d, C-15d and C-16d.. The

specific table pertains to the costs to meet the Floor or BTF Option in question while using either 0% or 25% hazardous waste feed control..

C.2.6 Feed Rate Reduction

As described throughout the preceding sections, the entire analysis process is done for two scenarios: facilities operating as-is with current waste feed rates, and facilities operating with a 25% reduction in waste metals and chlorine content (resulting in a 25% reduction in the feedrate of these constituents into the system). Feedrate adjusted stack gas emissions levels are estimated by the use of "partitioning factors" which are an estimation of the reduction in stack gas emissions levels corresponding to a reduction in hazardous waste feed rate inputs into the system (there is not always a direct one-to-one reduction is feed rate and stack gas emissions rates).

Partitioning factors were determined by estimating the impact of waste feed changes on the stack emissions of the various HAPs of concern. It was assumed that emissions are linearly dependent on feed rates and that the major factor which influences stack emissions is the ratio of the concentration of the HAP in the waste feed to the concentration of the HAP in the other feed streams (i.e., raw materials, fuels, and spike streams). For example, if mercury were fed to the combustion system in the waste only, a reduction of 25% in the waste feed rate will correspond to a reduction of 25% in stack emissions of mercury; however, if mercury were introduced into the system entirely in the other feed streams, a reduction of 25% in the waste feed rate will not reduce stack emissions of mercury. Appendix C-B summarizes the results of the impact of waste feed reduction on emissions for chlorine, LVM, SVM, and mercury from boilers, cement kilns, incinerators, and light weight aggregate kilns. These results were calculated from data belonging to many facilities within each combustion category and the median maximum and minimum values are shown in Appendix C-B.

C.3 COST ESTIMATES FOR EXISTING FACILITIES TO MEET PROPOSED FLOOR STANDARDS

Given in this section are the following tables which estimate the cost of an APCD upgrade and/or retrofit to facilities in order to comply with the proposed floor levels while using 0% or 25% feed rate control.

Feed Rate Control	Tables
0%	C-la to C-Id
25%	C-2a to C-2d

Figure C-2. Cement Kiln ACFM Size Distribution

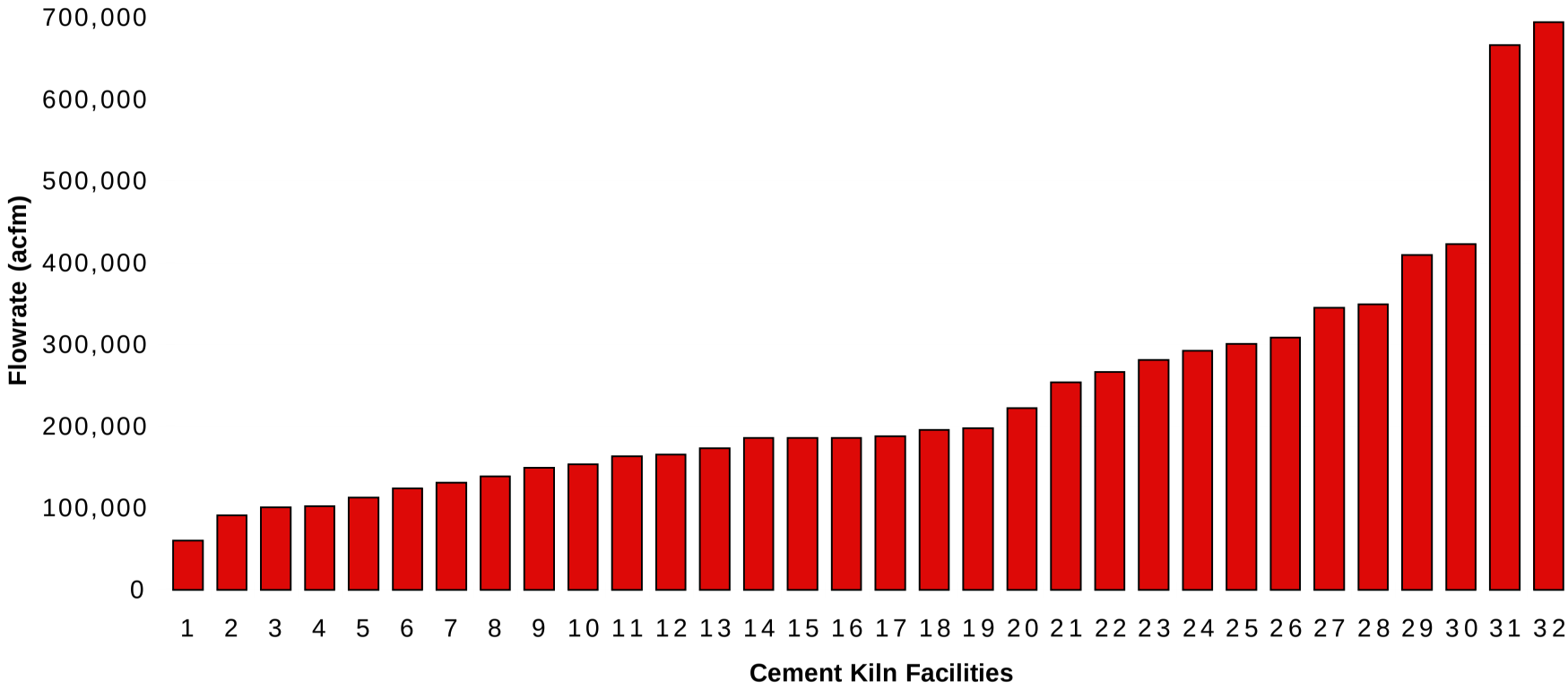

Figure C-3. LWAK ACFM Size Distribution

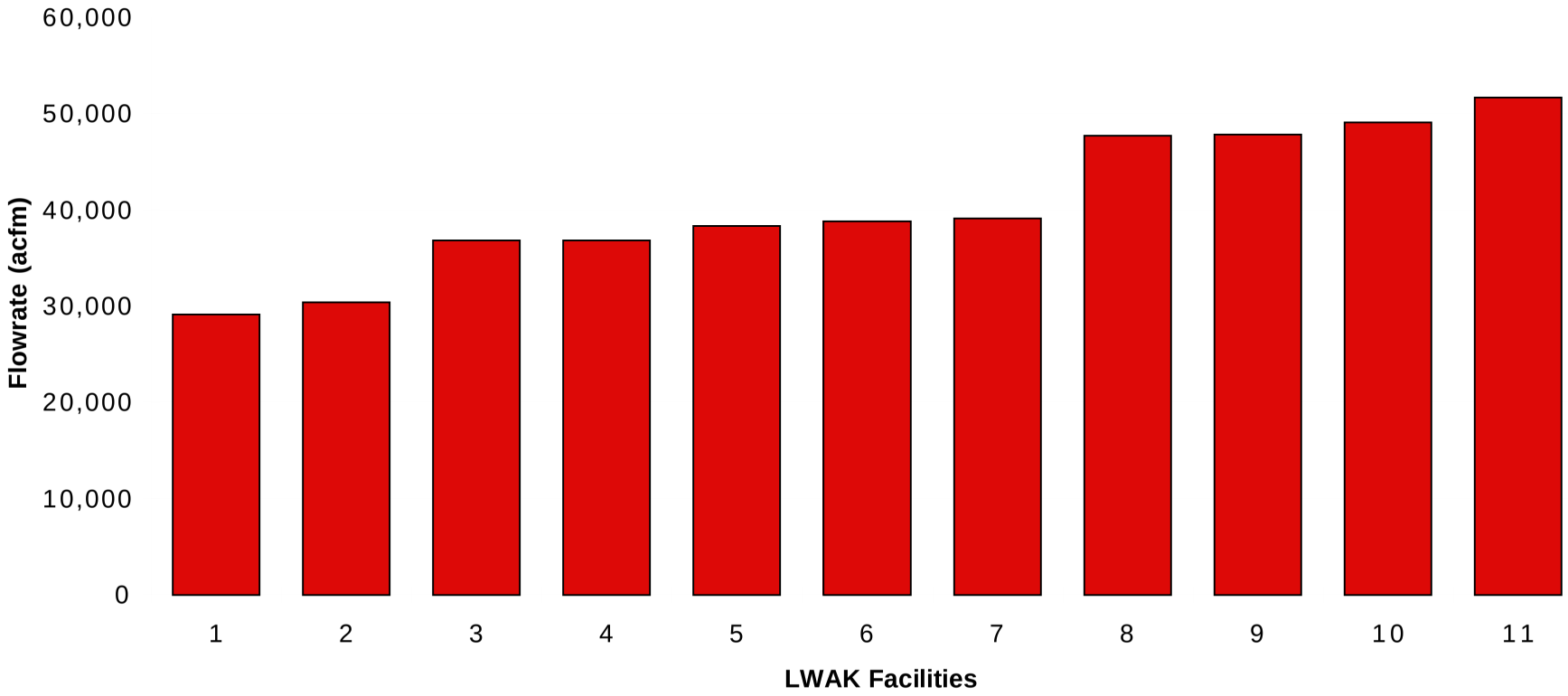

Figure C-4. Incinerator ACFM Size Distribution

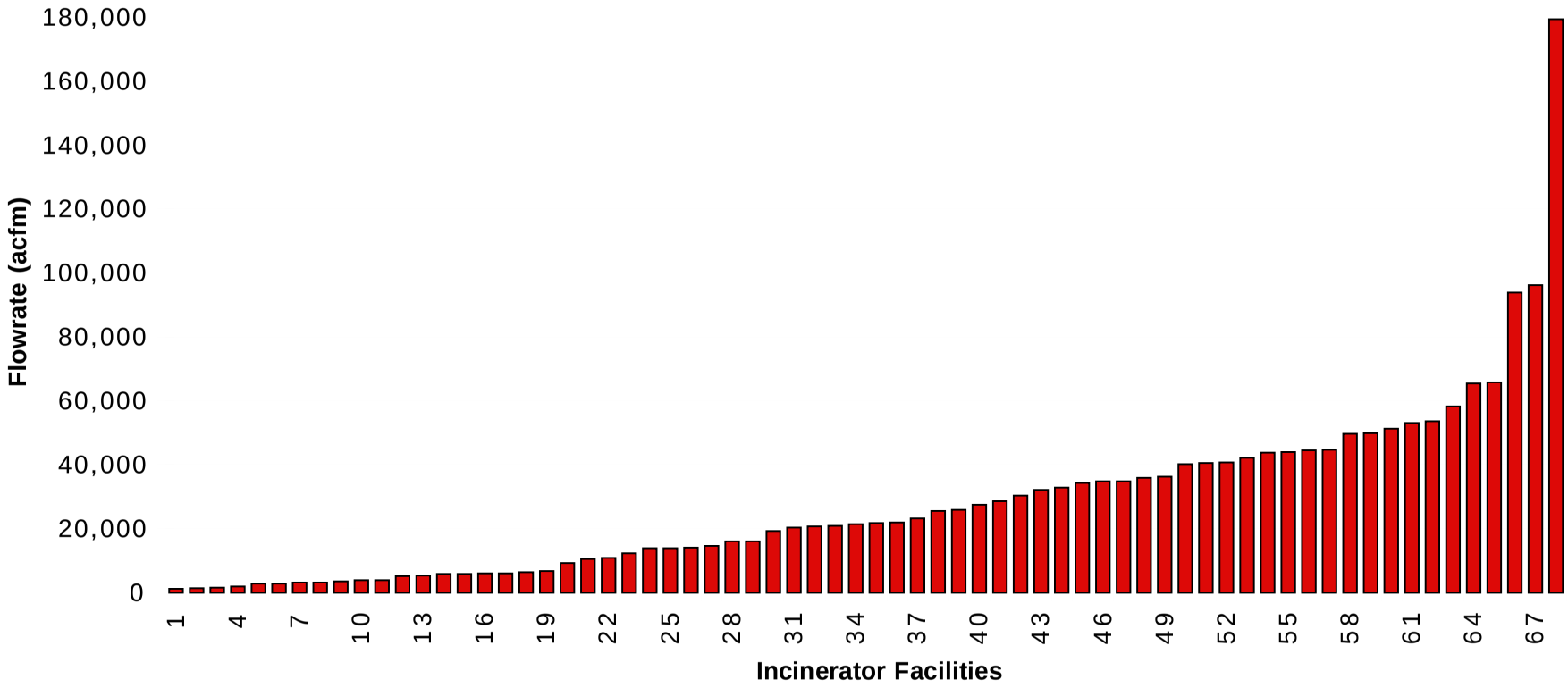

TABLE C-1. EMISSION LEVELS WITH 0% FEED CONTROL

EER Site ID No.	Type	Hg Reported Emission ug/dscm	Hg Feed Adj. Emission ug/dscm	PM Reported Emission gr/dscf	PM Feed Adj. Emission gr/dscf	SVM Reported Emission ug/dscm	SVM Feed Adj. Emission ug/dscm	LVM Reported Emission g/dscm	LVM Feed Adj. Emission g/dscm	HCl Reported Emission ppmv	HCl Feed Adj. Emission ppmv	Cl2 Reported Emission ppmv	Cl2 Feed Adj. Emission ppmv	HC Run Ave Emission ppmv	HC MHRA Emission ppmv	HC Selected Emission ppmv	HC Feed Adj. Emission ppmv	CO Run Ave. Emission ppmv	CO MHRA Emission ppmv	CO Selected Emission ppmv	CO Feed Adj. Emission ppmv
r Partitioning Factors			0.00		na		0.00		0.00		0.00		0.00				na				na
209	INC	3.20	3.20	0.00	0.00	7.99	7.99	22.54	22.54	10.62	10.62	21.42	21.42	nr	nr	nr	nr	271.48	nr	271.48	271.48
210	INC	nr	nr	0.01	0.01	nr	nr	nr	nr	33.58	33.58	0.32	0.32	3.88	nr	3.88	3.88	0.36	nr	0.36	0.36
211	INC	nr	nr	0.01	0.01	nr	nr	nr	nr	23.18	23.18	8.14	8.14	2.32	nr	2.32	2.32	4.76	nr	4.76	4.76
212	INC	nr	nr	0.02	0.02	nr	nr	nr	nr	86.99	86.99	0.17	0.17	3.46	nr	3.46	3.46	4.91	nr	4.91	4.91
214	INC	198.40	198.40	0.02	0.02	736.51	736.51	151.79	151.79	1.43	1.43	nr	nr	1.23	nr	1.23	1.23	15.11	nr	15.11	15.11
216	INC	20.69	20.69	0.03	0.03	789.81	789.81	130.64	130.64	9.42	9.42	nr	nr	nr	nr	nr	nr	10.31	nr	10.31	10.31
221	INC	8.37	8.37	0.01	0.01	40.96	40.96	60.87	60.87	12.21	12.21	6.11	6.11	3.55	nr	3.55	3.55	15.33	nr	15.33	15.33
222	INC	nr	nr	0.00	0.00	2.81	2.81	nr	nr	1.41	1.41	0.37	0.37	0.33	nr	0.33	0.33	37.38	nr	37.38	37.38
229	INC	nr	nr	0.02	0.02	45.36	45.36	59.75	59.75	87.20	87.20	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
324	INC	nr	nr	0.01	0.01	644.78	644.78	110.62	110.62	103.08	103.08	nr	nr	nr	nr	nr	nr	31.27	nr	31.27	31.27
325	INC	28.91	28.91	0.00	0.00	88.49	88.49	31.71	31.71	5.35	5.35	nr	nr	0.85	nr	0.85	0.85	4.90	10.33	10.33	10.33
327	INC	863.99	863.99	0.00	0.00	20.54	20.54	26.58	26.58	3.25	3.25	0.18	0.18	5.21	nr	5.21	5.21	8.36	nr	8.36	8.36
329	INC	nr	nr	0.03	0.03	nr	nr	nr	nr	7.02	7.02	0.36	0.36	2.47	nr	2.47	2.47	9.66	nr	9.66	9.66
330	INC	5.21	5.21	0.04	0.04	339.98	339.98	53.41	53.41	50.73	50.73	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
331	INC	45.38	45.38	0.01	0.01	3699.33	3699.33	55.68	55.68	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
332	INC	nr	nr	0.12	0.12	nr	nr	nr	nr	38.37	38.37	19.15	19.15	nr	nr	nr	nr	500.02	nr	500.02	500.02
333	INC	nr	nr	0.00	0.00	nr	nr	nr	nr	57.88	57.88	0.57	0.57	nr	nr	nr	nr	4.47	nr	4.47	4.47
334	INC	5.98	5.98	0.06	0.06	4555.53	4555.53	502.28	502.28	15.92	15.92	nr	nr	2.03	nr	2.03	2.03	74.09	nr	74.09	74.09
337	INC	163.68	163.68	0.00	0.00	82.39	82.39	223.42	223.42	0.35	0.35	5.01	5.01	3.25	nr	3.25	3.25	0.76	nr	0.76	0.76
338	INC	60.56	60.56	0.00	0.00	29.66	29.66	75.74	75.74	0.15	0.15	0.05	0.05	1.83	nr	1.83	1.83	2.01	nr	2.01	2.01
339	INC	nr	nr	0.00	0.00	nr	nr	nr	nr	17.39	17.39	0.01	0.01	1.24	nr	1.24	1.24	nr	nr	nr	nr
340	INC	10.30	10.30	0.01	0.01	8.72	8.72	11.48	11.48	16.68	16.68	nr	nr	1.61	nr	1.61	1.61	29.58	nr	29.58	29.58
341	INC	0.93	0.93	0.00	0.00	13.83	13.83	7.66	7.66	1.47	1.47	nr	nr	nr	nr	nr	nr	3.42	57.65	57.65	57.65
342	INC	6.70	6.70	0.00	0.00	19.33	19.33	2.28	2.28	0.21	0.21	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
344	INC	nr	nr	0.00	0.00	16.14	16.14	68.39	68.39	0.91	0.91	nr	nr	1.79	nr	1.79	1.79	16.14	nr	16.14	16.14
346	INC	0.28	0.28	0.00	0.00	90.19	90.19	12.25	12.25	0.75	0.75	nr	nr	nr	nr	nr	nr	28.12	nr	28.12	28.12
347	INC	5.17	5.17	0.01	0.01	10.55	10.55	14.71	14.71	1.49	1.49	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
348	INC	nr	nr	0.00	0.00	8.65	8.65	3.16	3.16	0.06	0.06	0.50	0.50	nr	nr	nr	nr	8.30	nr	8.30	8.30
349	INC	nr	nr	0.00	0.00	37.30	37.30	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	8.67	nr	8.67	8.67
350	INC	nr	nr	0.00	0.00	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	3.37	nr	3.37	3.37
351	INC	nr	nr	0.01	0.01	nr	nr	10.73	10.73	nr	nr	nr	nr	nr	nr	nr	nr	30.29	73.95	73.95	73.95
353	INC	4.04	4.04	0.02	0.02	100.38	100.38	119.38	119.38	nr	nr	nr	nr	nr	nr	nr	nr	15.90	nr	15.90	15.90
354	INC	0.84	0.84	0.01	0.01	2.37	2.37	10.19	10.19	0.59	0.59	1.17	1.17	nr	nr	nr	nr	2.96	nr	2.96	2.96
356	INC	nr	nr	0.03	0.03	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	2.70	nr	3.70	3.70
357	INC	nr	nr	0.02	0.02	nr	nr	nr	nr	6.79	6.79	nr	nr	nr	nr	nr	nr	11.01	nr	11.01	11.01
358	INC	nr	nr	0.03	0.03	nr	nr	nr	nr	3.02	3.02	nr	nr	nr	nr	nr	nr	1.50	nr	1.50	1.50
359	INC	nr	nr	0.02	0.02	518.63	518.63	52017.20	52017.20	8.03	8.03	nr	nr	nr	nr	nr	nr	99.42	nr	99.42	99.42
400	INC	16.06	16.06	0.01	0.01	749.27	749.27	110.91	110.91	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
500	INC	2.98	2.98	0.00	0.00	2.84	2.84	3.41	3.41	13.85	13.85	9.05	9.05	nr	nr	nr	nr	nr	nr	nr	nr
502	INC	nr	nr	0.04	0.04	1263.48	1263.48	76.11	76.11	20.94	20.94	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
503	INC	15.51	15.51	0.03	0.03	769.66	769.66	428.70	428.70	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
504	INC	1856.04	1856.04	0.02	0.02	38.81	38.81	149.71	149.71	4.57	4.57	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr

TABLE C-1. EMISSION LEVELS WITH 0% FEED CONTROL

EER Site ID No.	Type	Hg Reported Emission ug/dscm	Hg Feed Adj. Emission ug/dscm	PM Reported Emission gr/dscf	PM Feed Adj. Emission gr/dscf	SVM Reported Emission ug/dscm	SVM Feed Adj. Emission ug/dscm	LVM Reported Emission g/dscm	LVM Feed Adj. Emission g/dscm	HCl Reported Emission ppmv	HCl Feed Adj. Emission ppmv	Cl2 Reported Emission ppmv	Cl2 Feed Adj. Emission ppmv	HC Run Ave Emission ppmv	HC MHRA Emission ppmv	HC Selected Emission ppmv	HC Feed Adj. Emission ppmv	CO Run Ave. Emission ppmv	CO MHRA Emission ppmv	CO Selected Emission ppmv	CO Feed Adj. Emission ppmv
600	INC	nr	nr	0.01	0.01	nr	nr	nr	nr	1.17	1.17	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
700	INC	4.48	4.48	0.04	0.04	25613.40	25613.40	704.62	704.62	13.18	13.18	0.12	0.12	nr	nr	nr	nr	nr	nr	nr	nr
701	INC	nr	nr	0.04	0.04	nr	nr	nr	nr	10.76	10.76	nr	nr	0.77	nr	0.77	0.77	nr	nr	nr	nr
702	INC	nr	nr	0.08	0.08	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
703	INC	nr	nr	0.00	0.00	nr	nr	nr	nr	323.74	323.74	nr	nr	0.37	nr	0.37	0.37	1.15	nr	1.15	1.15
704	INC	nr	nr	0.02	0.02	nr	nr	nr	nr	154.12	154.12	nr	nr	nr	nr	nr	nr	4.38	nr	4.38	4.38
705	INC	12.82	12.82	0.03	0.03	169.78	169.78	119.12	119.12	9.84	9.84	nr	nr	nr	nr	nr	nr	2.89	nr	2.89	2.89
706	INC	nr	nr	0.04	0.04	nr	nr	nr	nr	0.53	0.53	nr	nr	5.18	nr	5.18	5.18	39.76	nr	39.76	39.76
707	INC	nr	nr	0.04	0.04	nr	nr	nr	nr	5.06	5.06	nr	nr	nr	nr	nr	nr	6970.22	nr	6970.22	6970.22
708	INC	nr	nr	0.02	0.02	nr	nr	nr	nr	0.73	0.73	nr	nr	nr	nr	nr	nr	8.72	nr	8.72	8.72
709	INC	nr	nr	0.04	0.04	nr	nr	nr	nr	nr	nr	nr	nr	1.28	nr	1.28	1.28	5.21	7.76	7.76	7.76
710	INC	nr	nr	0.03	0.03	nr	nr	nr	nr	90.21	90.21	148.47	148.47	4.32	12.67	12.67	12.67	11.41	29.33	29.33	29.33
711	INC	nr	nr	0.03	0.03	nr	nr	nr	nr	0.84	0.84	nr	nr	nr	nr	nr	nr	14.47	nr	14.47	14.47
712	INC	nr	nr	0.02	0.02	2.25	2.25	23.41	23.41	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
713	INC	nr	nr	0.07	0.07	nr	nr	nr	nr	26.13	26.13	nr	nr	nr	nr	nr	nr	2.00	nr	2.00	2.00
714	INC	nr	nr	0.02	0.02	nr	nr	nr	nr	50.00	50.00	nr	nr	nr	nr	nr	nr	16.93	nr	16.93	16.93
725	INC	1.61	1.61	0.02	0.02	39.35	39.35	47.16	47.16	5.42	5.42	58.29	58.29	1.75	nr	1.75	1.75	4.13	nr	4.13	4.13
726	INC	nr	nr	0.00	0.00	nr	nr	nr	nr	nr	nr	nr	nr	14.60	nr	14.60	14.60	20.23	nr	20.23	20.23
727	INC	nr	nr	0.08	0.08	nr	nr	nr	nr	nr	nr	nr	nr	184.44	nr	184.44	184.44	2217.19	nr	2217.19	2217.19
728	INC	nr	nr	0.04	0.04	nr	nr	nr	nr	0.39	0.39	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
784	INC	nr	nr	0.04	0.04	nr	nr	nr	nr	902.32	902.32	nr	nr	nr	nr	nr	nr	3.64	nr	3.64	3.64
805	INC	nr	nr	0.06	0.06	nr	nr	nr	nr	nr	nr	5.07	5.07	4.80	nr	4.80	4.80	342.21	nr	342.21	342.21
806	INC	157.77	157.77	0.04	0.04	548.35	548.35	7.11	7.11	44.25	44.25	nr	nr	15.23	nr	15.23	15.23	196.72	nr	196.72	196.72
807	INC	11.42	11.42	0.02	0.02	177.39	177.39	170.38	170.38	2.04	2.04	0.30	0.30	2.23	nr	2.23	2.23	5.37	nr	5.37	5.37
808	INC	nr	nr	0.01	0.01	nr	nr	nr	nr	0.42	0.42	nr	nr	nr	nr	nr	nr	50.82	nr	50.82	50.82
809	INC	nr	nr	nr	nr	10146.28	10146.28	3756.47	3756.47	nr	nr	nr	nr	4.40	nr	4.40	4.40	1230.25	nr	1230.25	1230.25
810	INC	nr	nr	nr	nr	1459.57	1459.57	594.53	594.53	nr	nr	nr	nr	nr	nr	nr	nr	15.53	nr	15.53	15.53
824	INC	0.71	0.71	0.01	0.01	47.75	47.75	113.66	113.66	2.35	2.35	nr	nr	nr	nr	nr	nr	8.52	nr	8.52	8.52
825	INC	nr	nr	0.08	0.08	nr	nr	nr	nr	2.34	2.34	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
902	INC	46.67	46.67	0.02	0.02	24.13	24.13	9.70	9.70	4.54	4.54	nr	nr	4.40	nr	4.40	4.40	39.40	nr	39.40	39.40
904	INC	nr	nr	0.01	0.01	nr	nr	nr	nr	nr	nr	nr	nr	7.69	nr	7.69	7.69	0.50	nr	0.50	0.50
905	INC	nr	nr	nr	nr	26265.96	26265.96	185.14	185.14	nr	nr	nr	nr	nr	nr	nr	nr	36.64	nr	36.64	36.64
906	INC	nr	nr	0.07	0.07	nr	nr	nr	nr	136.86	136.86	nr	nr	2.02	nr	2.02	2.02	6.02	nr	6.02	6.02
914	INC	nr	nr	0.00	0.00	nr	nr	nr	nr	nr	nr	16.08	16.08	nr	nr	nr	nr	3.60	nr	3.60	3.60
915	INC	nr	nr	0.06	0.06	1226.59	1226.59	677.01	677.01	nr	nr	nr	nr	0.55	21.50	21.50	21.50	56.05	644.65	644.65	644.65

TABLE C-1a. REQUIRED REDUCTION TO MEET FLOOR 1 WITH 0% FEED REDUCTION

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.
Floor Levels		105.00		0.03		60.00		80.00		60.00		1.00		20.00	
200	CK	-943.28	0	-118.49	0	11.79	12	79.20	79	-259.90	0	-9939.48	0	nr	0
201	CK	-3858.47	0	-130.41	0	-19.45	0	76.95	77	-207.84	0	-19113.07	0	nr	0
202	CK	-410.83	0	-25.37	0	47.29	47	-171.43	0	-266.57	0	-275.34	0	nr	0
203	CK	-1657.95	0	-119.51	0	89.11	89	-189.88	0	46.51	47	-31.41	0	-5.26	0
204	CK	-501.79	0	0.26	0	87.34	87	-1160.17	0	-100402.56	0	-9353.25	0	nr	0
205	CK	-255.50	0	35.22	35	95.82	96	-302.25	0	-284.42	0	-388.22	0	10.95	0
206	CK	-545.65	0	-25.08	0	77.89	78	-833.89	0	25.32	25	-2331.38	0	-65.62	0
207	CK	-528.34	0	-31.99	0	83.38	83	-314.49	0	-1282.53	0	-241.01	0	nr	0
208	CK	-409.44	0	-108.75	0	30.45	30	-569.85	0	-1415.29	0	-329.31	0	nr	0
228	CK	nr	25	nr	0	nr	75	nr	0	nr	0	nr	0	-18.34	0
300	CK	nr	0	58.04	58	96.85	97	8.66	9	-80.21	0	-241.59	0	-4.58	0
301	CK	9.34	9	23.80	24	-558.71	0	-376.85	0	-27041.50	0	-464.49	0	-65.70	0
302	CK	nr	0	-44.64	0	93.18	93	-292.55	0	-518.37	0	-113.63	0	nr	0
303	CK	-260.70	0	-30.43	0	-137.38	0	-574.52	0	-1488.16	0	-912.24	0	66.67	0
304	CK	-132.16	0	48.89	49	90.27	90	-98.82	0	-17386.05	0	-23156.06	0	nr	0
305	CK	-877.50	0	58.80	59	94.43	94	-169.43	0	42.41	42	-310.12	0	10.42	0
306	CK	96.99	97	-99.06	0	-270.97	0	-504.69	0	-2784.36	0	-494.23	0	nr	0
308	CK	nr	0	-36.36	0	33.16	33	-968.07	0	-1230.02	0	-30.46	0	nr	0
309	CK	-172.00	0	-25.78	0	89.71	90	-1574.72	0	-26.92	0	-796.72	0	-32.45	0
315	CK	nr	0	-2740.15	0	-307.71	0	-615.13	0	-2884.12	0	-4051.35	0	nr	0
316	CK	nr	0	-154.44	0	-963.78	0	-1053.42	0	-129.09	0	-10.72	0	-233.33	0
317	CK	nr	0	-1230.87	0	-108.38	0	-241.51	0	-1254.51	0	-1965.79	0	64.17	0
318	CK	nr	0	-225.02	0	53.66	54	-332.38	0	-26.00	0	-1105.30	0	-207.69	0
319	CK	-89.83	0	20.00	20	90.38	90	-25.95	0	-0.72	0	90.21	90	68.94	0
320	CK	nr	0	-899.98	0	-2606.88	0	-1709.29	0	-2026.92	0	51.83	52	80.10	0
321	CK	nr	0	71.43	71	-802.93	0	-1294.44	0	-1248.40	0	60.91	61	nr	0
322	CK	nr	0	-130.76	0	59.73	60	-208.71	0	-178.41	0	-390.28	0	-170.27	0
323	CK	nr	75	-7.14	0	93.06	93	0.42	0	27.48	27	-1080.36	0	-90.48	0
335	CK	-160.61	0	-48.08	0	91.37	91	-647.06	0	45.86	46	-148.24	0	-12.55	0
401	CK	-73.27	0	42.41	42	93.35	93	19.03	19	-179.24	0	-76.83	0	61.33	0
402	CK	-226.69	0	43.93	44	98.23	98	24.87	25	-325.73	0	71.36	71	33.05	0
403	CK	87.93	88	13.39	13	-100.61	0	-143.20	0	-10132.30	0	-4529.68	0	-13.19	0

TABLE C-1a. REQUIRED REDUCTION TO MEET FLOOR 1 WITH 0% FEED REDUCTION

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.
404	CK	-2368.97	0	-528.18	0	-7.97	0	37.49	37	14.29	14	33.74	34	-25.96	0
405	CK	-420.07	0	-36.56	0	93.69	94	72.09	72	-2468.19	0	-173.45	0	6.65	0

TABLE C-1a. REQUIRED REDUCTION TO MEET FLOOR 1 WITH 0% FEED REDUCTION

CO Req. % Reduct.	CO Adj. Reduct.
na	
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na
na	na

CO Req. % Reduct.	CO Adj. Reduct.
na	na
na	na

TABLE C-1a. REQUIRED REDUCTION TO MEET FLOOR 1 WITH 0% FEED REDUCTION

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.
Floor Levels		30.00		0.015		60.00		80.00		1300.00		2.50		20.00	
223	LWAK	3.22	3	-479.94	0	-962.76	0	-124.69	0	39.86	40	-299.36	0	nr	0
224	LWAK	-109.49	0	-427.20	0	-1408.79	0	-331.05	0	-135054.67	0	-478.26	0	nr	0
225	LWAK	-541.04	0	-4045.81	0	-6064.30	0	-692.88	0	-115.61	0	-1685.71	0	nr	0
226	LWAK	nr	0	-1385.13	0	nr	0	nr	0	nr	0	nr	0	nr	0
227	LWAK	-79.59	0	-926.73	0	-193.58	0	-297.03	0	14.39	14	-481.55	0	-60.00	0
307	LWAK	93.89	94	-38.09	0	-946.18	0	-25.21	0	-5817.72	0	-325.01	0	nr	0
310	LWAK	-116.91	0	6.25	6	82.19	82	-33.99	0	-8.91	0	-13.57	0	nr	0
311	LWAK	-98.51	0	-150.00	0	86.54	87	-121.23	0	-6.29	0	66.08	66	nr	0
312	LWAK	-255.93	0	-114.28	0	85.87	86	-126.36	0	-0.73	0	69.18	69	nr	0
313	LWAK	-7991.07	0	-150.00	0	86.65	87	72.82	73	15.04	15	-304.63	0	nr	0
314	LWAK	-19.05	0	42.18	42	96.37	96	60.57	61	-58.52	0	-28.87	0	nr	0
336	LWAK	nr	0	-84.34	0	nr	75	nr	0	nr	0	nr	0	nr	0

CO Req. % Reduct.	CO Adj. Reduct.
100.00	
nr	0
nr	0
nr	0
nr	0
92.51	0
-120.61	0
nr	0
nr	0
nr	0
nr	0
nr	0
nr	0

TABLE C-1b. MODEL GROUP SELECTION FOR FLOOR 1 WITH 0% FEED REDUCTION

EER Site ID No.	Type	Current APCD	%Emissions Reduction Required to Meet the Floor with 0% Feed Control								Model Group No.
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	
200	CK	FF	0	0	12	79	0	0	0	na	3
201	CK	FF	0	0	0	77	0	0	0	na	3
202	CK	FF	0	0	47	0	0	0	0	na	7
203	CK	ESP	0	0	89	0	47	0	0	na	6
204	CK	ESP	0	0	87	0	0	0	0	na	3
205	CK	ESP	0	35	96	0	0	0	0	na	3
206	CK	ESP	0	0	78	0	25	0	0	na	6
207	CK	MC/ESP	0	0	83	0	0	0	0	na	3
208	CK	ESP	0	0	30	0	0	0	0	na	2
228	CK	ESP	25	0	75	0	0	0	0	na	4
300	CK	ESP	0	58	97	9	0	0	0	na	3
301	CK	FF	9	24	0	0	0	0	0	na	4
302	CK	ESP	0	0	93	0	0	0	0	na	3
303	CK	QC/FF	0	0	0	0	0	0	0	na	1
304	CK	ESP	0	49	90	0	0	0	0	na	3
305	CK	ESP	0	59	94	0	42	0	0	na	6
306	CK	MC/FF	97	0	0	0	0	0	0	na	5
308	CK	ESP	0	0	33	0	0	0	0	na	2
309	CK	MC/ESP	0	0	90	0	0	0	0	na	3
315	CK	FF	0	0	0	0	0	0	0	na	1
316	CK	FF	0	0	0	0	0	0	0	na	1
317	CK	FF	0	0	0	0	0	0	0	na	1
318	CK	ESP	0	0	54	0	0	0	0	na	2
319	CK	ESP	0	20	90	0	0	90	0	na	6
320	CK	FF	0	0	0	0	0	52	0	na	9
321	CK	ESP	0	71	0	0	0	61	0	na	6
322	CK	ESP	0	0	60	0	0	0	0	na	2
323	CK	ESP	75	0	93	0	27	0	0	na	8
335	CK	ESP	0	0	91	0	46	0	0	na	6
401	CK	ESP	0	42	93	19	0	0	0	na	3
402	CK	ESP	0	44	98	25	0	71	0	na	6
403	CK	ESP	88	13	0	0	0	0	0	na	5
404	CK	ESP	0	0	0	37	14	34	0	na	6
405	CK	ESP	0	0	94	72	0	0	0	na	3

Required Add-on Flue Gas Control
Add FF
Add FF
Moderate DOM on existing FF
Add IWS
Add FF
Add FF
Add IWS
Add FF
Moderate DOM on existing ESP
Add CI + FF
Add FF
Add CI + FF
Add FF
None
Add FF
Add IWS
Add Q + CI + FF
Moderate DOM on existing ESP
Add FF
None
None
None
Moderate DOM on existing ESP
Add IWS
Add PT
Add IWS
Moderate DOM on existing ESP
Add CI + FF + PT
Add IWS
Add FF
Add IWS
Add Q + CI + FF
Add IWS
Add FF

TABLE C-1c. CHARACTERIZATION OF MODEL PLANTS USING 0% FEED REDUCTION

Source Group	Model Plant Number	Required Equipment	Report. Ratio **	Site ID	Size Cat.	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equiv. HCl Conc (ppm)
CK	Group 1	None	1	315	S	Southdown	FF	102,042	147,000	
			1	303	L	Lone Star	MC/FF	408,681	370,000	
			1	316	L	Southdown	FF	nr	370,000	
			1	317	L	Southdown	FF	422,190	370,000	
	Group 2	DOM ESP mod	3	308	S	North Texas	ESP	162,599	147,000	
			4	318	S	Texas Indstries	ESP	152,675	147,000	
			1	322	S	Lafarge	ESP	112,269	147,000	
			1	208	L	Keystone	ESP	307,644	370,000	
	Group 3	Add FF	2	200	S	Giant	FF	123,584	147,000	
			2	201	S	Giant	FF	137,945	147,000	
			1	207	S	Keystone	MC/ESP	90,681	147,000	
			2	300	S	Essroc	ESP	164,692	147,000	
			2	302	S	Lafarge	ESP	130,576	147,000	
			1	401	S	Ash Grovew	ESP	172,481	147,000	
			1	405	S	Ash Grove	ESP	194,905	147,000	
			1	204	L	Holnam	ESP	693,613	370,000	
			1	205	L	Holnam	ESP	253,556	370,000	
			1	304	L	Lone Star	ESP	300,367	370,000	
			1	309	L	River Cement	MC/ESP	665,839	370,000	
	Group 4	Add CI,FF	1	228*	S	Ash Grove	ESP	148,537	147,000	
			1	301	S	Essroc	FF	185,409	147,000	
	Group 5	Add Q,CI,FF	1	403	S	Ash Grove	ESP	184,877	147,000	
			1	306	L	National	MC/FF	280,868	370,000	
	Group 6	Add IWS	2	305	S	Medusa	ESP	196,903	147,000	85
			1	321	S	Lafarge	ESP	59,542	147,000	85
			1	335	S	Medusa	ESP	100,378	147,000	85
			1	402	S	Ash Grove	ESP	187,605	147,000	85
			1	203	L	Holnam	ESP	291,645	370,000	85
			1	206*	L	Holnam	ESP	348,510	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
			1	404	L	Ash Grove	ESP	265,721	370,000	85
	Group 7	DOM FF mod	1	202	L	Heartland	FF	221,421	370,000	

Source Group	Model Plant Number	Required Equipment	Report. Ratio **	Site ID	Size Cat.	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equiv. HCl Conc (ppm)
	Group 8	Add CI,FF,PT	1	323*	S	Lafarge	FF	185,409	147,000	85
	Group 9	Add PT	3	320	L	Lafarge	FF	nr	370,000	85
LWAK	Group 1	None	1	224	M	Solite	FF	39,049	40,500	
			1	225	M	Solite	FF	38,270	40,500	
			1	226	M	Solite	FF	nr	40,500	
	Group 2	Add FF	1	310	M	Solite	FF	47,770	40,500	
			1	314	M	Solite	FF	36,793	40,500	
			1	336*	M	Solite	FF	30,336	40,500	
	Group 3	Add CI, FF	2	307	M	Norlite	FF/VS	49,050	40,500	
	Group 4	Add CI, FF, ST	1	223	M	Solite	FF	29,092	40,500	1,570
	Group 5	Add ST	1	227	M	Solite	FF	38,796	40,500	1,570
	Group 6	Add IWS	1	311	M	Solite	FF	51,627	40,500	1,570
			1	312	M	Solite	FF	47,698	40,500	1,570
			1	313	M	Solite	FF	36,793	40,500	1,570
Incinerators	Group 1	None	1	341	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
	Group 2	Add PT	1	342*	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92
			1	351*	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
			1	340*	M	Miles	WHB/ESP/WS	16,003	22,100	92
			1	221	L	Rollins	PT	51,114	60,800	92
			1	500	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92
	Group 3	DOM WS mod, Add RH,CI/CB,FF	1	210*	L	LWD	FF/S	96,107	60,800	

TABLE C-1c. CHARACTERIZATION OF MODEL PLANTS USING 0% FEED REDUCTION

Source Group	Model Plant Number	Required Equipment	Report. Ratio **	Site ID	Size Cat.	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equiv. HCl Conc (ppm)
Incinerators (cont.)	Group 4	Add IWS	2	349*	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
			1	356*	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	704	S	Ashland	NONE	5,011	3,900	92
			1	713*	S	Pfizer	VS/PT	2,625	3,900	92
			1	725*	S	Zeneca	WS/QT	1,489	3,900	92
			1	784*	S	Cook Composites	NONE	nr	3,900	92
			1	906	S	Monsanto	QT/PT	2,738	3,900	92
			1	324	M	Allied	?	12,120	22,100	92
			1	702*	M	Dupont	QT/S/C	nr	22,100	92
			1	710*	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	211*	L	LWD	SS/PT/VS	43,596	60,800	92
			1	400*	L	Marine Shale	SD/FF	179,333	60,800	92
			1	600*	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
	Group 5	Add AB,IWS	1	229*	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92
			1	332	M	Thermalkem	WS	20,208	22,100	92
			1	914*	M	Vertac Superfund	?	25,849	22,100	92
			1	809*	L	Tennessee Eastman	VS	40,524	60,800	92
	Group 6	Add FF	1	904*	S	First Chemical	?	5,950	3,900	
			1	905	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	350*	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	357	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
			1	701*	M	Eli Lilly	VS/PT	9,208	22,100	
			1	808*	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
			1	810	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
			1	216	L	Rollins	HES/WS	40,002	60,800	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	
			1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	DOM FF mod, DOM WS mod	1	212	L	LWD	FF/S	44,610	60,800	
	Group 8	Add CI/CB	1	222*	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
			1	327	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
Incinerators (cont.)			1	338*	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add RH, CI/CB, FF	1	502*	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	

Source Group	Model Plant Number	Required Equipment	Report. Ratio **	Site ID	Size Cat.	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equiv. HCl Conc (ppm)
			1	344*	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	359*	M	Atochem	WHB/FF/S	13,802	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	329*	L	Dupont	PT/IWS	53,489	60,800	
	Group 10	Add Q,CI/CB,FF	1	709*	S	Cargill Chemical	NONE	3,123	3,900	
	Group 11	DOM FF mod, Add PT	1	325*	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92
	Group 12	DOM WS mod, Add FF	1	330	M	General Electric	QT/WS/DM	10,345	22,100	
			2	714*	M	Olnin Chemical	WS	19,185	22,100	
	Group 13	Add PT, RH, CI/CB, FF	1	726*	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	331*	L	Ross	PT/IWS	44,379	60,800	92
	Group 14	DOM SD mod, DOM FF mod	1	333*	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	DOM FF mod, Add CI/CB, PT	2	337	M	Olnin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 16	DOM VS mod, Add PT	1	728*	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
			1	824*	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92
			1	346*	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92
			1	358*	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	706*	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
			1	711*	L	Chevron Chemical	C/VS/AS	52,907	60,800	92
	Group 17	DOM ESP mod	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
			1	705	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	

TABLE C-1c. CHARACTERIZATION OF MODEL PLANTS USING 0% FEED REDUCTION

Source Group	Model Plant Number	Required Equipment	Report. Ratio **	Site ID	Size Cat.	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equiv. HCl Conc (ppm)
Incinerators	Group 18	DOM WS small	1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
(cont.)	Group 19	DOM VS mod	1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
	Group 20	Add Q,CI/CB,PT	1	703*	S	Aristech	WHB	1,873	3,900	92
	Group 21	Add AB, FF	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
			1	707*	L	Dupont	QT/WS	58,120	60,800	
	Group 22	DOM ESP mod, Add PT	1	708*	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
	Group 23	DOM VS mod, DOM Combustor, Add PT	1	805	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	92
	Group 24	DOM combustor, Add PT,RH,CI/CB,FF	1	806*	M	Amoco Oli	C/VS	20,641	22,100	92
	Group 25	Add AB,RH,CI/CB,FF	1	825*	M	General Electric	CCS/QC/ESP	21,363	22,100	
	Group 26	DOM VS mod, Add AB,RH,CI/CB,FF	1	915*	M	Eastman Kodak	QC/VS/C	nr	22,100	
	Group 27	DOM Combustor, Add PT	1	209	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 28	DOM ESP mod, Add RH,CI/CB	1	339*	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
	Group 29	DOM WS small, Add RH,CI/CB,FF	1	214*	M	Rollins	IWS	34,655	22,100	
	Group 32	Add RH, CB/CI	1	348*	S	Occidental Chemcial	QC/AS/IWS	nr	3,900	
	Group 33	DOM Combustor, Add IWS	1	503*	S	Lake City Army Ammo Plant	HTHE/LTHE/FF	4,747	3,900	92

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribtion of reported values from other facilities

** Reported Ratio is equal to the no. of total units located at a site / the no. of units for which information was reported. Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered representative of the other nonreported units

nr = not reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 1	S	None	1	$0K	$0K	$0K
		L		3	$0K	$0K	$0K
	Group 2	S	DOM ESP mod	8	$1,757K	$149K	$380K
		L		1	$3,136K	$287K	$699K
	Group 3	S	Add FF	11	$2,141K	$355K	$596K
		L		4	$5,072K	$754K	$1,325K
	Group 4	S	Add CI,FF	2	$2,611K	$718K	$1,022K
	Group 5	S	Add Q,CI,FF	1	$3,144K	$806K	$1,180K
		L		1	$6,570K	$1,645K	$2,414K
	Group 6	S	Add IWS	5	$2,390K	$379K	$768K
		L		4	$4,410K	$747K	$1,465K
	Group 7	L	DOM FF mod	1	$315K	$104K	$115K
	Group 8	S	Add CI,FF,PT	1	$3,512K	$1,048K	$1,498K
	Group 9	L	Add PT	3	$1,934K	$684K	$999K
LWAK	Group 1	M	None	3	$0K	$0K	$0K
	Group 2	M	Add FF	3	$661K	$161K	$236K
	Group 3	M	Add CI, FF	2	$1,074K	$350K	$480K
	Group 4	M	Add CI, FF, ST	1	$2,302K	$680K	$1,009K
	Group 5	M	Add ST	1	$1,229K	$330K	$530K
	Group 6	M	Add IWS	3	$1,016K	$682K	$847K
Incinerators	Group 1	M	None	2	$0K	$0K	$0K
	Group 2	S	Add PT	2	$57K	$90K	$99K
		M		1	$204K	$124K	$157K
		L		2	$445K	$195K	$267K
	Group 3	L	DOM WS mod, Add RH,CI/CB,FF	1	$1,876K	$504K	$926K
	Group 4	S	Add IWS	8	$215K	$97K	$132K
		M		3	$680K	$144K	$254K
		L		3	$1,331K	$228K	$445K
	Group 5	S	Add AB,IWS	1	$480K	$289K	$359K
		M		2	$1,097K	$677K	$843K
		L		1	$1,873K	$1,504K	$1,792K
	Group 6	S	Add FF	2	$82K	$89K	$98K
		M		6	$295K	$121K	$154K
		L		3	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
Incinerators (cont.)	Group 8	L	Add CI/CB	3	$425K	$224K	$280K
	Group 9	S	Add RH, CI/CB, FF	1	$575K	$200K	$295K
		M		4	$932K	$300K	$476K
		L		1	$1,681K	$463K	$835K
	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
	Group 11	M	DOM FF mod, Add PT	1	$223K	$130K	$164K
	Group 12	M	DOM WS mod, Add FF	3	$367K	$136K	$188K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
	Group 13	S	Add PT, RH, CI/CB, FF	1	$632K	$290K	$394K
		L		1	$2,126K	$658K	$1,102K
	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	2	$620K	$278K	$364K
	Group 16	S	DOM VS mod, Add PT	1	$68K	$96K	$109K
		M		3	$250K	$159K	$205K
		L		1	$550K	$291K	$394K
	Group 17	M	DOM ESP mod	2	$535K	$50K	$120K
	Group 18	M	DOM WS small	1	$40K	$13K	$20K
	Group 19	M	DOM VS mod	1	$46K	$35K	$47K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K
	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
		L		1	$1,486K	$1,473K	$1,651K
	Group 22	S	DOM ESP mod, Add PT	1	$238K	$117K	$150K
	Group 23	M	DOM VS mod, DOM Combustor, Add PT	1	$404K	$159K	$230K
	Group 24	M	DOM combustor, Add PT,RH,CI/CB,FF	1	$1,291K	$424K	$659K
	Group 25	M	Add AB,RH,CI/CB,FF	1	$1,349K	$833K	$1,064K
	Group 26	M	DOM VS mod, Add AB,RH,CI/CB,FF	1	$1,395K	$868K	$1,112K
	Group 27	M	DOM Combustor, Add PT	1	$359K	$124K	$183K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$138K	$247K
	Group 29	M	DOM WS small, Add RH,CI/CB,FF	1	$972K	$313K	$496K
	Group 32	S	Add RH, CB/CI	1	$493K	$111K	$196K
	Group 33	S	DOM Combustor, Add IWS	1	$331K	$97K	$151K

TABLE C-2. EMISSION LEVELS WITH 25% FEED CONTROL

EER Site ID No.	Type	Hg Reported Emisssion	Hg Feed Adj. Emission	PM Reported Emission	PM Feed Adj. Emission	SVM Reported Emission	SVM Feed Adj. Emission	LVM Reported Emission	LVM Feed Adj. Emission	HCl Reported Emission	HCl Feed Adj. Emission	Cl2 Reported Emission	Cl2 Feed Adj. Emission	HC Run Ave. Emission	HC MHRA Emission	HC Selected Emission	HC Feed Adj. Emission	CO Run Ave Emission	CO MHRA Emission	CO Selected Emission	CO Feed Adj. Emission
		ug/dscm	ug/dscm	gr/dscf	gr/dscf	ug/dscm	ug/dscm	ug/dscm	ug/dscm	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv
Partitioning Factor			0.25		na		0.21		0.14		0.23		0.23				na				na
200	CK	10.06	7.55	0.01	0.01	68.02	53.97	384.55	331.29	16.67	12.88	0.01	0.01	nr	nr	nr	nr	nr	nr	nr	nr
201	CK	2.65	1.99	0.01	0.01	50.23	39.85	347.12	299.04	19.49	15.06	0.01	0.00	nr	nr	nr	nr	nr	nr	nr	nr
202	CK	20.55	15.42	0.02	0.02	113.83	90.31	29.47	25.39	16.37	12.64	0.27	0.21	nr	nr	nr	nr	nr	nr	nr	nr
203	CK	5.97	4.48	0.01	0.01	550.96	437.13	27.60	23.78	112.18	86.66	0.76	0.59	18.50	19.00	19.00	19.00	273.00	312.00	312.00	312.00
204	CK	17.45	13.09	0.03	0.03	473.89	375.98	6.35	5.47	0.06	0.05	0.01	0.01	nr	nr	nr	nr	nr	nr	nr	nr
205	CK	29.54	22.15	0.05	0.05	1435.77	1139.14	19.89	17.13	15.61	12.06	0.20	0.16	22.46	nr	22.46	22.46	159.63	nr	159.63	159.63
206	CK	16.26	12.20	0.02	0.02	271.32	215.27	8.57	7.38	80.34	62.06	0.04	0.03	12.08	nr	12.08	12.08	146.30	nr	146.30	146.30
207	CK	16.71	12.53	0.02	0.02	360.98	286.40	19.30	16.63	4.34	3.35	0.29	0.23	nr	nr	nr	nr	25.75	32.25	32.25	32.25
208	CK	20.61	15.46	0.01	0.01	86.26	68.44	11.94	10.29	3.96	3.06	0.23	0.18	nr	nr	nr	nr	47.75	51.25	51.25	51.25
228	CK	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	13.20	16.90	16.90	16.90	384.57	572.00	572.00	572.00
300	CK	nr	nr	0.07	0.07	1906.98	1513.00	87.59	75.46	33.29	25.72	0.29	0.23	16.55	19.13	19.13	19.13	208.75	372.00	372.00	372.00
301	CK	115.82	86.86	0.04	0.04	9.11	7.23	16.78	14.45	0.22	0.17	0.18	0.14	12.07	nr	12.07	12.07	682.42	nr	682.42	682.42
302	CK	nr	nr	0.02	0.02	879.54	697.83	20.38	17.56	9.70	7.50	0.47	0.36	nr	nr	nr	nr	nr	nr	nr	nr
303	CK	29.11	21.83	0.02	0.02	25.28	20.05	11.86	10.22	3.78	2.92	0.10	0.08	60.00	nr	60.00	60.00	1852.33	nr	1852.33	1852.33
304	CK	45.23	33.92	0.06	0.06	616.48	489.11	40.24	34.66	0.34	0.27	0.00	0.00	nr	nr	nr	nr	nr	nr	nr	nr
305	CK	10.74	8.06	0.07	0.07	1076.51	854.11	29.69	25.58	104.18	80.48	0.24	0.19	22.33	nr	22.33	22.33	4138.20	nr	4138.20	4138.20
306	CK	3487.93	2615.95	0.02	0.02	16.17	12.83	13.23	11.40	2.08	1.61	0.17	0.13	nr	nr	nr	nr	10.70	47.10	47.10	47.10
308	CK	nr	nr	0.02	0.02	89.77	71.23	7.49	6.45	4.51	3.48	0.77	0.59	nr	nr	nr	nr	nr	nr	nr	nr
309	CK	38.60	28.95	0.02	0.02	582.86	462.44	4.78	4.12	47.27	36.52	0.11	0.09	12.95	15.10	15.10	15.10	129.50	136.50	136.50	136.50
315	CK	nr	nr	0.00	0.00	14.72	11.68	11.19	9.64	2.01	1.55	0.02	0.02	nr	nr	nr	nr	nr	nr	nr	nr
316	CK	nr	nr	0.01	0.01	5.64	4.47	6.94	5.98	26.19	20.23	0.90	0.70	5.05	6.00	6.00	6.00	124.00	277.00	277.00	277.00
317	CK	nr	nr	0.00	0.00	28.79	22.84	23.43	20.18	4.43	3.42	0.05	0.04	55.82	nr	55.82	55.82	339.37	nr	339.37	339.37
318	CK	nr	nr	0.01	0.01	129.48	102.73	18.50	15.94	47.62	36.78	0.08	0.06	nr	6.50	6.50	6.50	nr	295.80	295.80	295.80
319	CK	55.31	41.48	0.04	0.04	623.71	494.85	63.52	54.72	59.57	46.02	10.22	7.89	64.39	nr	64.39	64.39	266.09	nr	266.09	266.09
320	CK	nr	nr	0.00	0.00	2.22	1.76	4.42	3.81	2.82	2.18	2.08	1.60	66.50	100.50	100.50	100.50	1504.00	2085.00	2085.00	2085.00
321	CK	nr	nr	0.11	0.11	6.65	5.27	5.74	4.94	4.45	3.44	2.56	1.98	nr	nr	nr	nr	nr	nr	nr	nr
322	CK	nr	nr	0.01	0.01	149.01	118.22	25.91	22.33	21.55	16.65	0.20	0.16	6.60	7.40	7.40	7.40	360.50	624.00	624.00	624.00
323	CK	nr	nr	0.03	0.03	864.33	685.76	80.34	69.21	82.73	63.91	0.08	0.07	9.20	10.50	10.50	10.50	304.00	621.00	621.00	621.00
335	CK	40.29	30.22	0.02	0.02	695.17	551.55	10.71	9.23	110.81	85.60	0.40	0.31	17.77	nr	17.77	17.77	153.09	nr	153.09	153.09
401	CK	60.60	45.45	0.05	0.05	902.12	715.74	98.80	85.12	21.49	16.60	0.57	0.44	27.93	51.73	51.73	51.73	629.96	952.85	952.85	952.85
402	CK	32.14	24.11	0.05	0.05	3397.77	2695.79	106.48	91.73	14.09	10.89	3.49	2.70	21.55	29.88	29.88	29.88	788.51	1154.78	1154.78	1154.78
403	CK	869.75	652.31	0.03	0.03	29.91	23.73	32.90	28.34	0.59	0.45	0.02	0.02	12.49	17.67	17.67	17.67	328.25	609.50	609.50	609.50
404	CK	4.25	3.19	0.00	0.00	55.57	44.09	127.97	110.25	70.00	54.08	1.51	1.17	11.85	15.88	15.88	15.88	472.25	716.25	716.25	716.25
405	CK	20.19	15.14	0.02	0.02	950.16	753.86	286.60	246.90	2.34	1.80	0.37	0.28	14.18	21.43	21.43	21.43	849.68	1150.53	1150.53	1150.53

TABLE C-2a. REQUIRED REDUCTION TO MEET FLOOR 1 WITH 25% FEED REDUCTION

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.
200	CK	-1291.04	0	-118.49	0	-11.18	0	75.85	76	-365.89	0	-12896.09	0	nr	0	na	na
201	CK	-5177.97	0	-130.41	0	-50.56	0	73.25	73	-298.50	0	-24771.29	0	nr	0	na	na
202	CK	-581.11	0	-25.37	0	33.56	34	-215.07	0	-374.52	0	-385.88	0	nr	0	na	na
203	CK	-2243.94	0	-119.51	0	86.27	86	-236.48	0	30.76	31	-70.10	0	-5.26	0	na	na
204	CK	-702.39	0	0.26	0	84.04	84	-1362.77	0	-130000.40	0	-12137.22	0	nr	0	na	na
205	CK	-374.00	0	35.22	35	94.73	95	-366.92	0	-397.63	0	-532.00	0	10.95	0	na	na
206	CK	-760.87	0	-25.08	0	72.13	72	-984.03	0	3.33	3	-3047.41	0	-65.62	0	na	na
207	CK	-737.79	0	-31.99	0	79.05	79	-381.13	0	-1689.68	0	-341.44	0	nr	0	na	na
208	CK	-579.25	0	-108.75	0	12.33	12	-677.54	0	-1861.54	0	-455.75	0	nr	0	na	na
228	CK	nr	25	nr	0	nr	75	nr	0	nr	0	nr	0	-18.34	0	na	na
300	CK	nr	0	58.04	58	96.03	96	-6.02	0	-133.28	0	-342.19	0	-4.58	0	na	na
301	CK	-20.88	0	23.80	24	-730.24	0	-453.52	0	-35034.62	0	-630.73	0	-65.70	0	na	na
302	CK	nr	0	-44.64	0	91.40	91	-355.66	0	-700.48	0	-176.54	0	nr	0	na	na
303	CK	-380.94	0	-30.43	0	-199.20	0	-682.96	0	-1955.87	0	-1210.34	0	66.67	0	na	na
304	CK	-209.54	0	48.89	49	87.73	88	-130.78	0	-22535.67	0	-30004.93	0	nr	0	na	na
305	CK	-1203.34	0	58.80	59	92.98	93	-212.74	0	25.45	25	-430.90	0	10.42	0	na	na
306	CK	95.99	96	-99.06	0	-367.57	0	-601.90	0	-3633.80	0	-669.23	0	nr	0	na	na
308	CK	nr	0	-36.36	0	15.76	16	-1139.78	0	-1621.71	0	-68.87	0	nr	0	na	na
309	CK	-262.67	0	-25.78	0	87.03	87	-1843.95	0	-64.30	0	-1060.80	0	-32.45	0	na	na
315	CK	nr	0	-2740.15	0	-413.88	0	-730.10	0	-3762.94	0	-5273.91	0	nr	0	na	na
316	CK	nr	0	-154.44	0	-1240.79	0	-1238.86	0	-196.56	0	-43.33	0	-233.33	0	na	na
317	CK	nr	0	-1230.87	0	-162.65	0	-296.42	0	-1653.41	0	-2574.16	0	64.17	0	na	na
318	CK	nr	0	-225.02	0	41.59	42	-401.89	0	-63.11	0	-1460.26	0	-207.69	0	na	na
319	CK	-153.11	0	20.00	20	87.88	88	-46.20	0	-30.38	0	87.33	87	68.94	0	na	na
320	CK	nr	0	-899.98	0	-3311.75	0	-2000.16	0	-2653.29	0	37.65	38	80.10	0	na	na
321	CK	nr	0	71.43	71	-1038.05	0	-1518.62	0	-1645.51	0	49.40	49	nr	0	na	na
322	CK	nr	0	-130.76	0	49.25	49	-258.34	0	-260.41	0	-534.67	0	-170.27	0	na	na
323	CK	nr	75	-7.14	0	91.25	91	-15.59	0	6.12	6	-1427.98	0	-90.48	0	na	na
335	CK	-247.47	0	-48.08	0	89.12	89	-767.16	0	29.91	30	-221.34	0	-12.55	0	na	na
401	CK	-131.03	0	42.41	42	91.62	92	6.01	6	-261.48	0	-128.90	0	61.33	0	na	na
402	CK	-335.58	0	43.93	44	97.77	98	12.79	13	-451.10	0	62.93	63	33.05	0	na	na
403	CK	83.90	84	13.39	13	-152.84	0	-182.29	0	-13145.69	0	-5893.12	0	-13.19	0	na	na
404	CK	-3191.96	0	-528.18	0	-36.09	0	27.44	27	-10.95	0	14.22	14	-25.96	0	na	na
405	CK	-593.43	0	-36.56	0	92.04	92	67.60	68	-3224.52	0	-253.98	0	6.65	0	na	na

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.
Floor Levels		30.00		0.015		60.00		80.00		1300.00		2.50		20.00		100.00	
223	LWAK	-7.48	0	-479.94	0	-1304.10	0	-124.69	0	19.94	20	-431.63	0	nr	0	nr	0
224	LWAK	-132.64	0	-427.20	0	-1893.38	0	-331.05	0	-179818.36	0	-669.78	0	nr	0	nr	0
225	LWAK	-611.87	0	-4045.81	0	-8044.14	0	-692.88	0	-187.02	0	-2277.15	0	nr	0	nr	0
226	LWAK	nr	0	-1385.13	0	nr	0	nr	0	nr	0	nr	0	nr	0	nr	0
227	LWAK	-99.44	0	-926.73	0	-287.87	0	-297.03	0	-13.96	0	-674.17	0	-60.00	0	92.51	0
307	LWAK	93.22	93	-38.09	0	-1282.19	0	-25.21	0	-7777.68	0	-465.77	0	nr	0	-120.61	0
310	LWAK	-140.88	0	6.25	6	76.47	76	-33.99	0	-44.98	0	-51.18	0	nr	0	nr	0
311	LWAK	-120.44	0	-150.00	0	82.22	82	-121.23	0	-41.49	0	54.85	55	nr	0	nr	0
312	LWAK	-295.26	0	-114.28	0	81.33	81	-126.36	0	-34.10	0	58.97	59	nr	0	nr	0
313	LWAK	-8885.09	0	-150.00	0	82.36	82	72.82	73	-13.09	0	-438.64	0	nr	0	nr	0
314	LWAK	-32.20	0	42.18	42	95.20	95	60.57	61	-111.03	0	-71.55	0	nr	0	nr	0
336	LWAK	nr	0	-84.34	0	nr	75	nr	0	nr	0	nr	0	nr	0	nr	0

TABLE C-2a. REQUIRED REDUCTION TO MEET FLOOR 1 WITH 25% FEED REDUCTION

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.
Floor Levels		30.00		0.015		60.00		80.00		25.00		1.00		20.00		100.00	
209	INCIN	-1148.23	0	-223.01	0	-901.19	0	-254.98	0	-213.86	0	93.77	94	nr	25	63.16	63
210	INCIN	nr	25	-192.21	0	nr	50	nr	75	0.74	1	-323.19	0	-415.91	0	-27385.21	0
211	INCIN	nr	0	-44.23	0	nr	75	nr	50	-43.80	0	83.61	84	-760.67	0	-2002.04	0
212	INCIN	nr	0	36.13	36	nr	0	nr	0	61.68	62	-689.04	0	-478.16	0	-1934.62	0
214	INCIN	79.84	80	35.45	35	89.14	89	47.30	47	-2225.59	0	nr	25	-1521.60	0	-561.99	0
216	INCIN	-93.36	0	50.15	50	89.87	90	38.76	39	-254.00	0	nr	0	nr	0	-869.84	0
221	INCIN	-378.09	0	-5.42	0	-95.30	0	-31.44	0	-172.95	0	78.17	78	-464.12	0	-552.36	0
222	INCIN	nr	50	-597.56	0	-2747.28	0	nr	0	-2256.19	0	-256.01	0	-6003.91	0	-167.49	0
229	INCIN	nr	0	21.26	21	-76.35	0	-33.89	0	61.77	62	nr	75	nr	0	nr	75
324	INCIN	nr	0	-38.89	0	87.59	88	27.68	28	67.66	68	nr	0	nr	0	-219.83	0
325	INCIN	-38.37	0	-361.53	0	9.60	10	-152.27	0	-523.38	0	nr	75	-2263.92	0	-867.74	0
327	INCIN	95.37	95	-1094.70	0	-289.48	0	-200.94	0	-927.02	0	-638.11	0	-284.23	0	-1096.05	0
329	INCIN	nr	75	50.74	51	nr	75	nr	75	-374.75	0	-274.78	0	-708.58	0	-935.58	0
330	INCIN	-667.30	0	64.37	64	76.47	76	-49.79	0	34.29	34	nr	0	nr	0	nr	0
331	INCIN	11.85	12	-87.50	0	97.84	98	-43.68	0	nr	75	nr	75	nr	0	nr	0
332	INCIN	nr	0	87.30	87	nr	0	nr	0	13.13	13	93.04	93	nr	0	80.00	80
333	INCIN	nr	0	-1053.82	0	nr	0	nr	50	42.40	42	-135.54	0	nr	0	-2136.89	0
334	INCIN	-568.65	0	72.94	73	98.24	98	84.07	84	-109.38	0	nr	0	-885.83	0	-34.96	0
337	INCIN	75.56	76	-6247.01	0	2.90	3	64.19	64	-9471.38	0	73.40	73	-514.48	0	-13061.51	0
338	INCIN	33.95	34	-1099.99	0	-169.74	0	-5.63	0	-22288.80	0	-2617.49	0	-994.39	0	-4878.93	0
339	INCIN	nr	75	-414.21	0	nr	25	nr	0	-91.67	0	-9966.49	0	-1513.97	0	nr	0
340	INCIN	-288.20	0	-130.06	0	-817.42	0	-597.04	0	-99.81	0	nr	50	-1138.46	0	-238.04	0
341	INCIN	-4187.18	0	-916.94	0	-478.44	0	-944.00	0	-2160.14	0	nr	0	nr	0	-73.46	0
342	INCIN	-496.67	0	-316.97	0	-313.76	0	-3408.50	0	-15877.71	0	nr	75	nr	0	nr	0
344	INCIN	nr	25	-826.62	0	-395.71	0	-16.98	0	-3569.67	0	nr	0	-1015.00	0	-519.62	0
346	INCIN	-14284.42	0	-1067.30	0	11.30	11	-553.14	0	-4344.22	0	nr	75	nr	0	-255.68	0
347	INCIN	-674.41	0	-115.39	0	-658.24	0	-443.92	0	-2138.44	0	nr	0	nr	0	nr	0
348	INCIN	nr	75	-1399.99	0	-824.71	0	-2435.15	0	-59821.89	0	-167.39	0	nr	0	-1104.17	0
349	INCIN	nr	0	-690.51	0	-114.45	0	nr	75	nr	50	nr	75	nr	0	-1053.22	0
350	INCIN	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-2870.43	0
351	INCIN	nr	0	-68.16	0	nr	0	-645.40	0	nr	0	nr	50	nr	0	-35.23	0
353	INCIN	-890.94	0	30.81	31	20.30	20	32.99	33	nr	0	nr	0	nr	0	-529.10	0
354	INCIN	-4687.46	0	-141.54	0	-3272.96	0	-684.78	0	-5572.48	0	-14.29	0	nr	0	-3281.50	0

TABLE C-2a. REQUIRED REDUCTION TO MEET FLOOR 1 WITH 25% FEED REDUCTION

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.
356	INCIN	nr	0	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	0	-2601.64	0
357	INCIN	nr	0	38.53	39	nr	75	nr	0	-390.75	0	nr	0	nr	0	-808.60	0
358	INCIN	nr	0	52.79	53	nr	50	nr	0	-1005.24	0	nr	75	nr	0	-6563.08	0
359	INCIN	nr	75	19.91	20	84.57	85	99.85	100	-315.01	0	nr	0	nr	0	-0.58	0
400	INCIN	-149.13	0	-152.37	0	89.32	89	27.87	28	nr	0	nr	75	nr	0	nr	0
500	INCIN	-1241.88	0	-767.27	0	-2717.13	0	-2249.06	0	-140.75	0	85.27	85	nr	0	nr	0
502	INCIN	nr	25	57.14	57	93.67	94	-5.12	0	-59.17	0	nr	0	nr	0	nr	0
503	INCIN	-157.87	0	43.40	43	89.61	90	81.34	81	nr	0	nr	75	nr	0	nr	50
504	INCIN	97.84	98	16.67	17	-106.12	0	46.56	47	-628.63	0	nr	0	nr	0	nr	0
600	INCIN	nr	0	-100.00	0	nr	0	nr	50	-2746.99	0	nr	75	nr	0	nr	0
700	INCIN	-793.38	0	65.40	65	99.69	100	88.65	89	-152.96	0	-1002.22	0	nr	0	nr	0
701	INCIN	nr	0	65.22	65	nr	0	nr	75	-209.72	0	nr	0	-2497.40	0	nr	0
702	INCIN	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0
703	INCIN	nr	75	-400.00	0	nr	0	nr	0	89.70	90	nr	0	-5235.72	0	-8580.92	0
704	INCIN	nr	0	23.08	23	nr	0	nr	0	78.37	78	nr	50	nr	0	-2184.48	0
705	INCIN	-212.04	0	43.74	44	52.88	53	32.84	33	-238.87	0	nr	0	nr	0	-3364.34	0
706	INCIN	nr	0	64.87	65	nr	0	nr	0	-6211.60	0	nr	75	-285.81	0	-151.49	0
707	INCIN	nr	0	62.86	63	nr	75	nr	0	-559.36	0	nr	0	nr	0	98.57	99
708	INCIN	nr	0	39.80	40	nr	0	nr	50	-4479.16	0	nr	75	nr	0	-1047.43	0
709	INCIN	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-1464.15	0	-1188.66	0
710	INCIN	nr	0	45.78	46	nr	75	nr	0	63.05	63	99.10	99	-57.89	0	-240.91	0
711	INCIN	nr	0	47.67	48	nr	0	nr	0	-3874.02	0	nr	75	nr	0	-591.02	0
712	INCIN	nr	0	30.97	31	-3458.83	0	-241.79	0	nr	0	nr	0	nr	0	nr	0
713	INCIN	nr	0	77.78	78	nr	50	nr	0	-27.56	0	nr	75	nr	0	-4897.31	0
714	INCIN	nr	0	18.48	18	nr	75	nr	0	33.34	33	nr	0	nr	0	-490.50	0
725	INCIN	-2381.79	0	24.62	25	-103.28	0	-69.64	0	-515.50	0	97.71	98	-1042.86	0	-2320.90	0
726	INCIN	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	-36.95	0	-394.32	0
727	INCIN	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	89.16	89	95.49	95
728	INCIN	nr	0	65.04	65	nr	0	nr	0	-8462.93	0	nr	75	nr	0	nr	0
784	INCIN	nr	0	63.41	63	nr	75	nr	50	96.31	96	nr	0	nr	0	-2646.55	0
805	INCIN	nr	0	73.50	73	nr	0	nr	0	nr	50	73.72	74	-316.46	0	70.78	71
806	INCIN	74.65	75	66.47	66	85.41	85	-1025.54	0	24.67	25	nr	75	-31.36	0	49.17	49
807	INCIN	-250.14	0	39.43	39	54.90	55	53.04	53	-1536.67	0	-349.69	0	-795.81	0	-1762.35	0
808	INCIN	nr	0	-38.32	0	nr	75	nr	50	-7885.28	0	nr	0	nr	0	-96.76	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.
809	INCIN	nr	0	nr	0	99.21	99	97.87	98	nr	0	nr	75	-354.42	0	91.87	92
810	INCIN	nr	0	nr	0	94.52	95	86.54	87	nr	0	nr	0	nr	0	-543.78	0
824	INCIN	-5524.77	0	-134.37	0	-67.55	0	29.62	30	-1320.46	0	nr	75	nr	0	-1074.27	0
825	INCIN	nr	50	80.00	80	nr	0	nr	0	-1321.95	0	nr	0	nr	0	nr	75
902	INCIN	14.29	14	28.23	28	-231.54	0	-725.08	0	-634.89	0	nr	0	-354.81	0	-153.83	0
904	INCIN	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	-159.94	0	-19763.85	0
905	INCIN	nr	0	nr	0	99.70	100	56.79	57	nr	0	nr	0	nr	0	-172.96	0
906	INCIN	nr	0	77.68	78	nr	25	nr	75	75.64	76	nr	50	-891.12	0	-1559.85	0
914	INCIN	nr	0	-257.14	0	nr	0	nr	50	nr	25	91.71	92	nr	75	-2677.78	0
915	INCIN	nr	75	73.45	73	93.48	93	88.18	88	nr	0	nr	0	6.98	7	84.49	84

TABLE C-2b. MODEL GROUP SELECTION FOR FLOOR 1 WITH 25% FEED REDUCTION

EER ID No.	Type	Current APCD	% Emission Reduction Required to Meet the Floor with 25% Feed Control								Model Group No.	Required add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO		
200	CK	FF	0	0	0	76	0	0	0	na	3	Add FF
201	CK	FF	0	0	0	73	0	0	0	na	7	Moderate DOM on existing FF
202	CK	FF	0	0	34	0	0	0	0	na	7	Moderate DOM on existing FF
203	CK	ESP	0	0	86	0	31	0	0	na	6	Add IWS
204	CK	ESP	0	0	84	0	0	0	0	na	3	Add FF
205	CK	ESP	0	35	95	0	0	0	0	na	3	Add FF
206	CK	ESP	0	0	72	0	3	0	0	na	6	Add IWS
207	CK	MC/ESP	0	0	79	0	0	0	0	na	3	Add FF
208	CK	ESP	0	0	12	0	0	0	0	na	10	Small DOM on existing ESP
228	CK	ESP	0	0	75	0	0	0	0	na	3	Add FF
300	CK	ESP	0	58	96	0	0	0	0	na	3	Add FF
301	CK	FF	0	24	0	0	0	0	0	na	11	Small DOM on existing FF
302	CK	ESP	0	0	91	0	0	0	0	na	3	Add FF
303	CK	QC/FF	0	0	0	0	0	0	0	na	1	None
304	CK	ESP	0	49	88	0	0	0	0	na	3	Add FF
305	CK	ESP	0	59	93	0	25	0	0	na	6	Add IWS
306	CK	MC/FF	96	0	0	0	0	0	0	na	5	Add CI + FF +Q
308	CK	ESP	0	0	16	0	0	0	0	na	10	Small DOM on existing ESP
309	CK	MC/ESP	0	0	87	0	0	0	0	na	3	Add FF
315	CK	FF	0	0	0	0	0	0	0	na	1	None
316	CK	FF	0	0	0	0	0	0	0	na	1	None
317	CK	FF	0	0	0	0	0	0	0	na	1	None
318	CK	ESP	0	0	42	0	0	0	0	na	2	Moderate DOM on existing ESP
319	CK	ESP	0	20	88	0	0	87	0	na	6	Add IWS
320	CK	FF	0	0	0	0	0	38	0	na	9	Add PT
321	CK	ESP	0	71	0	0	0	49	0	na	6	Add IWS
322	CK	ESP	0	0	49	0	0	0	0	na	2	Moderate DOM on existing ESP
323	CK	ESP	75	0	91	0	6	0	0	na	8	Add CI + FF + PT
335	CK	ESP	0	0	89	0	30	0	0	na	6	Add IWS
401	CK	ESP	0	42	92	6	0	0	0	na	3	Add FF
402	CK	ESP	0	44	98	13	0	63	0	na	6	Add IWS
403	CK	ESP	84	13	0	0	0	0	0	na	5	Add Q + CI + FF
404	CK	ESP	0	0	0	27	0	14	0	na	6	Add IWS
405	CK	ESP	0	0	92	68	0	0	0	na	3	Add FF

EER ID No.	Type	Current APCD	% Emission Reduction Required to Meet the Floor with 25% Feed Control								Model Group No.	Required add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO		
223	LWAK	FF	0	0	0	0	20	0	0	0	5	Add ST
224	LWAK	FF	0	0	0	0	0	0	0	0	1	None
225	LWAK	FF	0	0	0	0	0	0	0	0	1	None
226	LWAK	FF	0	0	0	0	0	0	0	0	1	None
227	LWAK	FF	0	0	0	0	0	0	0	0	1	None
307	LWAK	FF/VS	93	0	0	0	0	0	0	0	3	Add CI + FF
310	LWAK	FF	0	6	76	0	0	0	0	0	2	Add FF
311	LWAK	FF	0	0	82	0	0	55	0	0	6	Add IWS
312	LWAK	FF	0	0	81	0	0	59	0	0	6	Add IWS
313	LWAK	FF	0	0	82	73	0	0	0	0	2	Add FF
314	LWAK	FF	0	42	95	61	0	0	0	0	2	Add FF
336	LWAK	FF	0	0	75	0	0	0	0	0	2	Add FF

TABLE C-2b. MODEL GROUP SELECTION FOR FLOOR 1 WITH 25% FEED REDUCTION

EER ID No.	Type	Current APCD	% Emission Reduction Required to Meet the Floor with 25% Feed Control								Model Group No.	Required add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO		
209	INC	WHB,FF/VQ/PT/DM	0	0	0	0	0	94	25	63	27	Moderate DOM on combustor + Add PT
210	INC	FF/S	25	0	50	75	1	0	0	0	3	Moderate DOM on existing WS + Add RH + CI + FF
211	INC	SS/PT/VS	0	0	75	50	0	84	0	0	4	Add IWS
212	INC	FF/S	0	36	0	0	62	0	0	0	7	Moderate DOM on existing FF & WS
214	INC	IWS	80	35	89	47	0	25	0	0	29	Moderate DOM on existing IWS + Add RH + CI+FF
216	INC	HES/WS	0	50	90	39	0	0	0	0	6	Add FF
221	INC	PT	0	0	0	0	0	78	0	0	2	Add PT
222	INC	WHB/SD/ESP/Q/PBS	50	0	0	0	0	0	0	0	8	Add CI
229	INC	WHB/ACS/HCS/CS	0	21	0	0	62	75	0	75	5	Add IWS + AB
324	INC	?	0	0	88	28	68	0	0	0	4	Add IWS
325	INC	SD/FF/WS/IWS	0	0	10	0	0	75	0	0	11	Moderate DOM on existing FF + PT
327	INC	SD/FF/WS/ESP	95	0	0	0	0	0	0	0	8	Add CI
329	INC	PT/IWS	75	51	75	75	0	0	0	0	9	Add RH + CI + FF
330	INC	QT/WS/DM	0	64	76	0	34	0	0	0	12	Moderate DOM on existing WS + Add FF
331	INC	PT/IWS	12	0	98	0	75	75	0	0	13	Add RH +CI + FF + PT
332	INC	WS	0	87	0	0	13	93	0	80	5	Add IWS + AB
333	INC	SD/FF	0	0	0	50	42	0	0	0	14	Moderate DOM on existing SD & FF
334	INC	WS/ESP/PT	0	73	98	84	0	0	0	0	6	Add FF
337	INC	WHB/DA/DI/FF	76	0	3	64	0	73	0	0	15	Moderate DOM on existing FF + Add CI + PT
338	INC	QC/FF/SS/C/HES/DM	34	0	0	0	0	0	0	0	8	Add CI
339	INC	AT/PT/RJS/ESP	75	0	25	0	0	0	0	0	28	Moderate DOM on existing ESP + Add RH + CB
340	INC	WHB/ESP/WS	0	0	0	0	0	50	0	0	30	Moderate DOM on existing PT
341	INC	DA/DI/FF/HEPA/CA	0	0	0	0	0	0	0	0	1	None
342	INC	WHB/QC/S/VS/DM	0	0	0	0	0	75	0	0	2	Add PT
344	INC	QC/VS/PT/DM	25	0	0	0	0	0	0	0	9	Add RH + CI + FF
346	INC	C/QC/VS/PT/DM	0	0	11	0	0	75	0	0	16	Moderate DOM on existing VS + Add PT
347	INC	C/QC/VS/S/DM	0	0	0	0	0	0	0	0	1	None
348	INC	QC/AS/IWS	75	0	0	0	0	0	0	0	32	Add RH + CB
349	INC	QC/FF/QC/PT	0	0	0	75	50	75	0	0	4	Add IWS
350	INC	WHB/HE/FF	0	0	75	50	0	0	0	0	6	Add FF
351	INC	GC/C/FF	0	0	0	0	0	50	0	0	2	Add PT
353	INC	QC/VS/DM/ESP	0	31	20	33	0	0	0	0	17	Moderate DOM on existing ESP
354	INC	QC/AS/VS/DM/IWS	0	0	0	0	0	0	0	0	1	None
356	INC	QC/AS/FN/DM	0	52	0	0	0	75	0	0	4	Add IWS
357	INC	QC/VS/PT/IWS	0	39	75	0	0	0	0	0	6	Add FF
358	INC	QC/VS/C/CT/S/DM	0	53	50	0	0	75	0	0	16	Moderate DOM on existing VS + Add PT
359	INC	WHB/FF/S	75	20	85	100	0	0	0	0	9	Add RH + CI + FF
400	INC	SD/FF	0	0	89	28	0	75	0	0	4	Add IWS

TABLE C-2b. MODEL GROUP SELECTION FOR FLOOR 1 WITH 25% FEED REDUCTION

EER ID No.	Type	Current APCD	% Emission Reduction Required to Meet the Floor with 25% Feed Control								Model Group No.	Required add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO		
500	INC	QC/VS/KOV/DM	0	0	0	0	0	85	0	0	2	Add PT
502	INC	WHB/QC/PBC/VS/ES	25	57	94	0	0	0	0	0	9	Add RH + CI + FF
503	INC	HTHE/LTHE/FF	0	43	90	81	0	75	0	50	5	Add IWS + AB
504	INC	VS/C	98	17	0	47	0	0	0	0	9	Add RH + CI + FF
600	INC	WHB/QC/PT/IWS	0	0	0	50	0	75	0	0	4	Add IWS
700	INC	SD/RJS/VS/WS	0	65	100	89	0	0	0	0	6	Add FF
701	INC	VS/PT	0	65	0	75	0	0	0	0	6	Add FF
702	INC	QT/S/C	0	82	75	0	0	75	0	0	4	Add IWS
703	INC	WHB	75	0	0	0	90	0	0	0	20	Add Q + CB + PT
704	INC	NONE	0	23	0	0	78	50	0	0	4	Add IWS
705	INC	QT/VS/ESP/PT	0	44	53	33	0	0	0	0	17	Moderate DOM on existing ESP
706	INC	QT/HS/C	0	65	0	0	0	75	0	0	16	Moderate DOM on existing VS + Add PT
707	INC	QT/WS	0	63	75	0	0	0	0	99	21	Add FF + AB
708	INC	WS/ESP	0	40	0	50	0	75	0	0	22	Moderate DOM on existing ESP+ Add PT
709	INC	NONE	50	63	0	0	0	0	0	0	10	Add Q + CI + FF
710	INC	QT/OS/C/S	0	46	75	0	63	99	0	0	4	Add IWS
711	INC	C/VS/AS	0	48	0	0	0	75	0	0	16	Moderate DOM on existing VS+ Add PT
712	INC	NONE	0	31	0	0	0	0	0	0	6	Add FF
713	INC	VS/PT	0	78	50	0	0	75	0	0	4	Add IWS
714	INC	WS	0	18	75	0	33	0	0	0	12	Moderate DOM on existing WS + Add FF
725	INC	WS/QT	0	25	0	0	0	98	0	0	4	Add IWS
726	INC	QC/CS/DM/VS	75	0	75	75	0	75	0	0	13	Add RH + CI + FF + PT
727	INC	GC/C/FF	0	82	75	50	0	0	89	95	21	Add FF + AB
728	INC	QT/PT/VS	0	65	0	0	0	75	0	0	16	Moderate DOM on existing VS+ Add PT
784	INC	NONE	0	63	75	50	96	0	0	0	30	Moderate DOM on existing PT
805	INC	QT/QS/VS/ES/PBS	0	73	0	0	50	74	0	71	31	Moderate DOM on VS and PT and combustor
806	INC	C/VS	75	66	85	0	25	75	0	49	24	Moderate DOM on combustor + Add RH + CI + FF + PT
807	INC	C/WHB/VQ/PT/HS/DM	0	39	55	53	0	0	0	0	19	Moderate DOM on VS
808	INC	QT/PBS/ESP	0	0	75	50	0	0	0	0	6	Add FF
809	INC	VS	0	0	99	98	0	75	0	92	5	Add IWS + AB
810	INC	Q/VS/PBS	0	0	95	87	0	0	0	0	6	Add FF
824	INC	QT/VS/PT/DM	0	0	0	30	0	75	0	0	16	Moderate DOM on existing VS + Add PT
825	INC	CCS/QC/ESP	50	80	0	0	0	0	0	75	25	Add RH + CI + FF + AB
902	INC	QT/VS/PT	14	28	0	0	0	0	0	0	9	Add RH + CI + FF
904	INC	?	0	0	75	0	0	0	0	0	6	Add FF
905	INC	QT/VS/AS/CS	0	0	100	57	0	0	0	0	6	Add FF
906	INC	QT/PT	0	78	25	75	76	50	0	0	4	Add IWS
914	INC	?	0	0	0	50	25	92	75	0	5	Add IWS + AB

TABLE C-2b. MODEL GROUP SELECTION FOR FLOOR 1 WITH 25% FEED REDUCTION

EER ID No.	Type	Current APCD	% Emission Reduction Required to Meet the Floor with 25% Feed Control								Model Group No.	Required add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO		
915	INC	QC/VS/C	75	73	93	88	0	0	7	84	25	Add RH + CI + FF + AB

TABLE C-2c. CHARACTERIZATION OF MODEL PLANTS, FLOOR 1, 25% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio **	Site ID	Size Cat.	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
CK	Group 1	None	1	315	S	Southdown	FF	102,042	147,000	
			1	303	L	Lone Star	MC/FF	408,681	370,000	
			1	316	L	Southdown	FF	nr	370,000	
			1	317	L	Southdown	FF	422,190	370,000	
	Group 2	DOM ESP mod	4	318	S	Texas Industries	ESP	152,675	147,000	
			1	322	S	Lafarge	ESP	112,269	147,000	
	Group 3	Add FF	2	200	S	Giant	FF	123,584	147,000	
			1	207	S	Keystone	MC/ESP	90,681	147,000	
			1	228*	S	Ash Grove	ESP	148,537	147,000	
			2	300	S	Essroc	ESP	164,692	147,000	
			2	302	S	Lafarge	ESP	130,576	147,000	
			1	401	S	Ash Grove	ESP	172,481	147,000	
			1	405	S	Ash Grove	ESP	194,905	147,000	
			1	204	L	Holnam	ESP	693,613	370,000	
			1	205	L	Holnam	ESP	253,556	370,000	
			1	304	L	Lone Star	ESP	300,367	370,000	
			1	309	L	River Cement	MC/ESP	665,839	370,000	
	Group 4	Add CI,FF	1	403	S	Ash Grove	ESP	184,877	147,000	
	Group 5	Add Q,CI,FF	1	306	L	National	MC/FF	280,868	370,000	
	Group 6	Add IWS	2	305*	S	Medusa	ESP	196,903	147,000	85
			1	321	S	Lafarge	ESP	59,542	147,000	85
			1	335	S	Medusa	ESP	100,378	147,000	85
			1	402	S	Ash Grove	ESP	187,605	147,000	85
			1	203	L	Holnam	ESP	291,645	370,000	85
			1	206	L	Holnam	ESP	348,510	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
			1	404	L	Ash Grove	ESP	265,721	370,000	85

Source Group	Model Plant Number	Required Equipment	Reported Ratio **	Site ID	Size Cat.	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
CK	Group 7	DOM FF mod	2	201	S	Giant	FF	137,945	147,000	
(cont.)			1	202	L	Heartland	FF	221,421	370,000	
	Group 8	Add CI,FF,PT	1	323*	S	Lafarge	FF	185,409	147,000	85
	Group 9	Add PT	3	320	L	Lafarge	FF	nr	370,000	85
	Group 10	DOM ESP small	3	308	S	North Texas	ESP	162,599	147,000	
			1	208	L	Keystone	ESP	307,644	370,000	
	Group 11	DOM FF small	1	301	S	Essroc	FF	185,409	147,000	
LWAK	Group 1	None	1	224	M	Solite	FF	39,049	40,500	
			1	225	M	Solite	FF	38,270	40,500	
			1	226	M	Solite	FF	nr	40,500	
			1	227	M	Solite	FF	38,796	40,500	1,570
	Group 2	Add FF	1	310	M	Solite	FF	47,770	40,500	
			1	313	M	Solite	FF	36,793	40,500	1,570
			1	314	M	Solite	FF	36,793	40,500	
			1	336*	M	Solite	FF	30,336	40,500	
	Group 3	Add CI, FF	2	307	M	Norlite	FF/VS	49,050	40,500	
	Group 4	Add CI, FF, ST	1	223	M	Solite	FF	29,092	40,500	1,570
	Group 6	Add IWS	1	311	M	Solite	FF	51,627	40,500	1,570
			1	312	M	Solite	FF	47,698	40,500	1,570
Incinerators	Group 1	None	1	341	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
			1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
	Group 2	Add PT	1	342*	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92
			1	351*	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
			1	221	L	Rollins	PT	51,114	60,800	92
			1	500	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92

Source Group	Model Plant Number	Required Equipment	Reported Ratio **	Site ID	Size Cat.	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
Incinerators (cont.)	Group 3	DOM WS mod, Add RH,CI/CB,FF	1	210*	L	LWD	FF/S	96,107	60,800	
	Group 4	Add IWS	1	704	S	Ashland	NONE	5,011	3,900	92
			1	713*	S	Pfizer	VS/PT	2,625	3,900	92
			1	725*	S	Zeneca	WS/QT	1,489	3,900	92
			1	784	S	Cook Composites	NONE	nr	3,900	92
			1	906	S	Monsanto	QT/PT	2,738	3,900	92
			2	349*	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
			1	356*	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	324	M	Allied	?	12,120	22,100	92
			1	710*	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	702*	M	Dupont	QT/S/C	nr	22,100	92
			1	211*	L	LWD	SS/PT/VS	43,596	60,800	92
			1	400*	L	Marine Shale	SD/FF	179,333	60,800	92
			1	600*	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
	Group 5	Add AB,IWS	1	229*	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92
			1	332	M	Thermalkem	WS	20,208	22,100	92
			1	914*	M	Vertac Superfund	?	25,849	22,100	92
			1	809*	L	Tennessee Eastman	VS	40,524	60,800	92
	Group 6	Add FF	1	904*	S	First Chemical	?	5,950	3,900	
			1	905	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	350*	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	357*	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
			1	701*	M	Eli Lilly	VS/PT	9,208	22,100	
			1	808*	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
			1	810	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
			1	216	L	Rollins	HES/WS	40,002	60,800	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	
			1	712	L	Nepera	NONE	65,256	60,800	

Source Group	Model Plant Number	Required Equipment	Reported Ratio **	Site ID	Size Cat.	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
Incinerators (cont.)	Group 7	DOM FF mod, DOM WS mod	1	212	L	LWD	FF/S	44,610	60,800	
	Group 8	Add CI/CB	1	222*	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
			1	327	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
			1	338	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add RH, CI/CB, FF	1	502*	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	
			1	344*	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	359*	M	Atochem	WHB/FF/S	13,802	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	329*	L	Dupont	PT/IWS	53,489	60,800	
	Group 10	Add Q,CI/CB,FF	1	709*	S	Cargill Chemical	NONE	3,123	3,900	
	Group 11	DOM FF mod, Add PT	1	325*	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92
	Group 12	DOM WS mod, Add FF	1	330	M	General Electric	QT/WS/DM	10,345	22,100	
			2	714*	M	Olnin Chemical	WS	19,185	22,100	
	Group 13	Add PT, RH, CI/CB, FF	1	726*	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	331*	L	Ross	PT/IWS	44,379	60,800	92
	Group 14	DOM SD mod, DOM FF mod	1	333*	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	DOM FF mod, Add CI/CB, PT	2	337	M	Olnin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 16	DOM VS mod, Add PT	1	728*	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
			1	824*	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92
			1	706*	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
			1	346*	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92
			1	358*	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	711*	L	Chevron Chemical	C/VS/AS	52,907	60,800	92
	Group 17	DOM ESP mod	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
			1	705	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	

TABLE C-2c. CHARACTERIZATION OF MODEL PLANTS, FLOOR 1, 25% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio **	Site ID	Size Cat.	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
Incinerators	Group 19	DOM VS mod	1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
(cont.)	Group 20	Add Q,CI/CB,PT	1	703*	S	Aristech	WHB	1,873	3,900	92
	Group 21	Add AB, FF	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
			1	707*	L	Dupont	QT/WS	58,120	60,800	
	Group 22	DOM ESP mod, Add PT	1	708*	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
	Group 24	DOM combustor, Add PT,RH,CI,FF	1	806*	M	Amoco Oli	C/VS	20,641	22,100	92
	Group 25	Add AB,RH,CI/CB,FF	1	825*	M	General Electric	CCS/QC/ESP	21,363	22,100	
			1	915*	M	Eastman Kodak	QC/VS/C	nr	22,100	
	Group 27	DOM Combustor, Add PT	1	209	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 28	DOM ESP mod, Add RH,CI/CB	1	339*	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
	Group 29	DOM WS small, Add RH,CI/CB,FF	1	214*	M	Rollins	IWS	34,655	22,100	
	Group 30	DOM PT mod	1	340*	M	Miles	WHB/ESP/WS	16,003	22,100	
	Group 31	DOM VS mod, DOM PT mod, DOM CombustorA	1	805	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	
	Group 32	Add RH, CB/CI	1	348*	S	Occidental Chemcial	QC/AS/IWS	nr	3,900	
	Group 33	DOM Combustor, Add IWS	1	503*	S	Lake City Army Ammo Plant	HTHE/LTHE/FF	4,747	3,900	92

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribtion of reported values from other facilities

** Reported Ratio is equal to the no. of total units located at a site / the no. of units for which information was reported. Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units

nr = not reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 1	S	None	1	$0K	$0K	$0K
		L		3	$0K	$0K	$0K
	Group 2	S	DOM ESP mod	5	$1,757K	$149K	$380K
	Group 3	S	Add FF	10	$2,141K	$355K	$596K
		L		4	$5,072K	$754K	$1,325K
	Group 4	S	Add CI,FF	1	$2,611K	$718K	$1,022K
	Group 5	L	Add Q,CI,FF	1	$6,570K	$1,645K	$2,414K
	Group 6	S	Add IWS	5	$2,390K	$379K	$768K
		L		4	$4,410K	$747K	$1,465K
	Group 7	S	DOM FF mod	2	$125K	$41K	$46K
		L		1	$315K	$104K	$115K
	Group 8	S	Add CI,FF,PT	1	$3,512K	$1,048K	$1,498K
	Group 9	L	Add PT	3	$1,934K	$684K	$999K
	Group 10	S	DOM ESP small	3	$533K	$88K	$158K
		L		1	$912K	$155K	$275K
	Group 11	S	DOM FF small	1	$26K	$22K	$26K
LWAK	Group 1	M	None	4	$0K	$0K	$0K
	Group 2	M	Add FF	4	$661K	$161K	$236K
	Group 3	M	Add CI, FF	2	$1,074K	$350K	$480K
	Group 4	M	Add CI, FF, ST	1	$2,302K	$680K	$1,009K
	Group 6	M	Add IWS	2	$1,016K	$682K	$847K
Incinerators	Group 1	M	None	3	$0K	$0K	$0K
	Group 2	S	Add PT	2	$57K	$90K	$99K
		L		2	$445K	$195K	$267K
	Group 3	L	DOM WS mod, Add RH,CI/CB,FF	1	$1,876K	$504K	$926K
	Group 4	S	Add IWS	8	$215K	$97K	$132K
		M		3	$680K	$144K	$254K
		L		3	$1,331K	$228K	$445K
	Group 5	S	Add AB,IWS	1	$480K	$289K	$359K
		M		2	$1,097K	$677K	$843K
		L		1	$1,873K	$1,504K	$1,792K
	Group 6	S	Add FF	2	$82K	$89K	$98K
		M		6	$295K	$121K	$154K
		L		3	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
Incinerators (cont.)	Group 8	L	Add CI/CB	3	$425K	$224K	$280K
	Group 9	S	Add RH, CI/CB, FF	1	$575K	$200K	$295K
		M		3	$932K	$300K	$476K
		L		1	$1,681K	$463K	$835K
	Group 10	S	Add Q,CICB,FF	1	$643K	$221K	$304K
	Group 11	M	DOM FF mod, Add PT	1	$223K	$130K	$164K
	Group 12	M	DOM WS mod, Add FF	3	$367K	$136K	$188K
	Group 13	S	Add PT, RH, CI/CB, FF	1	$632K	$290K	$394K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
		L		1	$2,126K	$658K	$1,102K
	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	2	$620K	$278K	$364K
Incinerators (cont.)	Group 16	S	DOM VS mod, Add PT	2	$68K	$96K	$109K
		M		3	$250K	$159K	$205K
		L		1	$550K	$291K	$394K
	Group 17	M	DOM ESP mod	2	$535K	$50K	$120K
	Group 19	M	DOM VS mod	1	$46K	$35K	$47K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K
	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
		L		1	$1,486K	$1,473K	$1,651K
	Group 22	S	DOM ESP mod, Add PT	1	$238K	$117K	$150K
	Group 24	M	DOM combustor, Add PT,RH,CI/CB,FF	1	$1,291K	$424K	$659K
	Group 25	M	Add AB,RH,CI/CB,FF	2	$1,349K	$833K	$1,064K
	Group 27	M	DOM Combustor, Add PT	1	$359K	$124K	$183K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$138K	$247K
	Group 29	M	DOM WS small, Add RH,CI/CB,FF	1	$972K	$313K	$496K
	Group 30	M	DOM PT mod	1	$71K	$15K	$33K
	Group 31	M	DOM VS mod, DOM PT mod, DOM Comb	1	$271K	$50K	$106K
	Group 32	S	Add RH, CB/CI	1	$493K	$111K	$196K
	Group 33	S	DOM Combustor, Add IWS	1	$331K	$97K	$151K

C.4 COST ESTIMATES FOR EXISTING FACILITIES TO MEET PROPOSED BEYOND THE FLOOR STANDARDS

This section contains all tables showing the cost to meet the various specified BTF options. The BTF Option as specified by EPA are listed in Appendix C-A. The tables given for each option are equivalent to Tables C-la, C-Ib, C-Ic and C-Id for the Floor with no feed rate control. An equivalent to Table C-I (and Table C-2 for the use of 25% feed rate control) is not included since the emissions values (both reported and feed adjusted) for each facility do not change across options.

Specifically, given in this section are the following tables which estimate the cost of an APCD upgrade and/or retrofit to facilities in order to comply with the desired BTF Option while using 0% and 25% hazardous waste feed rate control:

BTF Option	Tables
IA	C-3a to C-4d
IB	C-5a to C-6d
IC	C-7a to C-8d
2A	C-9a to C-10d
2B	C-11a to C-12d
3	C-13a to C-14d
4	C-15a to C-16d

C.5 NATIONAL EMISSIONS ESTIMATE AND ENGINEERING COST PER HAP

Table C-17 gives the national emissions estimate for Floor I and the BTF options. A discussion of the national emissions estimate is provided in Section 3.1 in the main body of the report. Table C-18 summarizes the engineering cost breakdown per HAP. A discussion of the apportionment of costs of each control device to the HAPs controlled by the device is contained in Section 3.4.

APPENDIX C-C
Model Plant Groups and their Associated APCD Requirements

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj % Reduct
Floor Levels		105.00		0.03		60.00		80.00		60.00		1.00		20.00		na		0.50	
200	CK	-943.28	0	-118.49	0	11.79	12	79.20	79	-259.90	0	-9939.48	0	nr	50	na	na	nr	25
201	CK	-3858.47	0	-130.41	0	-19.45	0	76.95	77	-207.84	0	-19113.07	0	nr	0	na	na	nr	50
202	CK	-410.83	0	-25.37	0	47.29	47	-171.43	0	-266.57	0	-275.34	0	nr	25	na	na	nr	0
203	CK	-1657.95	0	-119.51	0	89.11	89	-189.88	0	46.51	47	-31.41	0	-5.26	0	na	na	91.07	91
204	CK	-501.79	0	0.26	0	87.34	87	-1160.17	0	-100402.56	0	-9353.25	0	nr	0	na	na	12.28	12
205	CK	-255.50	0	35.22	35	95.82	96	-302.25	0	-284.42	0	-388.22	0	10.95	11	na	na	-407.61	0
206	CK	-545.65	0	-25.08	0	77.89	78	-833.89	0	25.32	25	-2331.38	0	-65.62	0	na	na	56.52	57
207	CK	-528.34	0	-31.99	0	83.38	83	-314.49	0	-1282.53	0	-241.01	0	nr	0	na	na	-3025.00	0
208	CK	-409.44	0	-108.75	0	30.45	30	-569.85	0	-1415.29	0	-329.31	0	nr	0	na	na	#######	0
228	CK	nr	25	nr	0	nr	75	nr	0	nr	0	nr	0	-18.34	0	na	na	-143.90	0
300	CK	nr	0	58.04	58	96.85	97	8.66	9	-80.21	0	-241.59	0	-4.58	0	na	na	95.83	96
301	CK	9.34	9	23.80	24	-558.71	0	-376.85	0	-27041.50	0	-464.49	0	-65.70	0	na	na	nr	75
302	CK	nr	0	-44.64	0	93.18	93	-292.55	0	-518.37	0	-113.63	0	nr	0	na	na	nr	0
303	CK	-260.70	0	-30.43	0	-137.38	0	-574.52	0	-1488.16	0	-912.24	0	66.67	67	na	na	nr	0
304	CK	-132.16	0	48.89	49	90.27	90	-98.82	0	-17386.05	0	-23156.06	0	nr	0	na	na	72.22	72
305	CK	-877.50	0	58.80	59	94.43	94	-169.43	0	42.41	42	-310.12	0	10.42	10	na	na	99.12	99
306	CK	96.99	97	-99.06	0	-270.97	0	-504.69	0	-2784.36	0	-494.23	0	nr	0	na	na	-815.75	0
308	CK	nr	0	-36.36	0	33.16	33	-968.07	0	-1230.02	0	-30.46	0	nr	25	na	na	nr	75
309	CK	-172.00	0	-25.78	0	89.71	90	-1574.72	0	-26.92	0	-796.72	0	-32.45	0	na	na	99.04	99
315	CK	nr	0	-2740.15	0	-307.71	0	-615.13	0	-2884.12	0	-4051.35	0	nr	50	na	na	nr	50
316	CK	nr	0	-154.44	0	-963.78	0	-1053.42	0	-129.09	0	-10.72	0	-233.33	0	na	na	nr	0
317	CK	nr	0	-1230.87	0	-108.38	0	-241.51	0	-1254.51	0	-1965.79	0	64.17	64	na	na	59.68	60
318	CK	nr	0	-225.02	0	53.66	54	-332.38	0	-26.00	0	-1105.30	0	-207.69	0	na	na	nr	75
319	CK	-89.83	0	20.00	20	90.38	90	-25.95	0	-0.72	0	90.21	90	68.94	69	na	na	91.06	91
320	CK	nr	0	-899.98	0	-2606.88	0	-1709.29	0	-2026.92	0	51.83	52	80.10	80	na	na	-492.42	0
321	CK	nr	0	71.43	71	-802.93	0	-1294.44	0	-1248.40	0	60.91	61	nr	50	na	na	nr	75
322	CK	nr	0	-130.76	0	59.73	60	-208.71	0	-178.41	0	-390.28	0	-170.27	0	na	na	81.34	81
323	CK	nr	75	-7.14	0	93.06	93	0.42	0	27.48	27	-1080.36	0	-90.48	0	na	na	86.11	86
335	CK	-160.61	0	-48.08	0	91.37	91	-647.06	0	45.86	46	-148.24	0	-12.55	0	na	na	97.99	98
401	CK	-73.27	0	42.41	42	93.35	93	19.03	19	-179.24	0	-76.83	0	61.33	61	na	na	-28.21	0
402	CK	-226.69	0	43.93	44	98.23	98	24.87	25	-325.73	0	71.36	71	33.05	33	na	na	nr	75
403	CK	87.93	88	13.39	13	-100.61	0	-143.20	0	-10132.30	0	-4529.68	0	-13.19	0	na	na	53.27	53
404	CK	-2368.97	0	-528.18	0	-7.97	0	37.49	37	14.29	14	33.74	34	-25.96	0	na	na	44.69	45
405	CK	-420.07	0	-36.56	0	93.69	94	72.09	72	-2468.19	0	-173.45	0	6.65	7	na	na	nr	50

HBER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj % Reduct
223	LWAK	3.22	3	-479.94	0	-962.76	0	-124.69	0	39.86	40	-299.36	0	nr	0	nr	0	nr	0
224	LWAK	-109.49	0	-427.20	0	-1408.79	0	-331.05	0	-135054.67	0	-478.26	0	nr	0	nr	75	nr	0
225	LWAK	-541.04	0	-4045.81	0	-6064.30	0	-692.88	0	-115.61	0	-1685.71	0	nr	0	nr	0	nr	0
226	LWAK	nr	0	-1385.13	0	nr	0	nr	0	nr	0	nr	0	nr	0	nr	75	nr	0
227	LWAK	-79.59	0	-926.73	0	-193.58	0	-297.03	0	14.39	14	-481.55	0	-60.00	0	92.51	93	nr	0
307	LWAK	93.89	94	-38.09	0	-946.18	0	-25.21	0	-5817.72	0	-325.01	0	nr	0	-120.61	0	nr	0
310	LWAK	-116.91	0	6.25	6	82.19	82	-33.99	0	-8.91	0	-13.57	0	nr	0	nr	0	nr	0
311	LWAK	-98.51	0	-150.00	0	86.54	87	-121.23	0	-6.29	0	66.08	66	nr	0	nr	75	nr	0
312	LWAK	-255.93	0	-114.28	0	85.87	86	-126.36	0	-0.73	0	69.18	69	nr	0	nr	0	nr	0
313	LWAK	-7991.07	0	-150.00	0	86.65	87	72.82	73	15.04	15	-304.63	0	nr	0	nr	75	nr	0
314	LWAK	-19.05	0	42.18	42	96.37	96	60.57	61	-58.52	0	-28.87	0	nr	0	nr	0	nr	0
336	LWAK	nr	0	-84.34	0	nr	75	nr	0	nr	0	nr	0	nr	0	nr	75	-1195.34	0

FEER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj % Reduct
Floor Levels		30.00		0.015		60.00		80.00		25.00		1.00		20.00		100.00		0.50	
209	INC	-836.18	0	-223.01	0	-650.89	0	-254.98	0	-135.39	0	95.33	95	nr	25	63.16	63	nr	75
210	INC	nr	75	-192.21	0	nr	50	nr	75	25.55	26	-217.40	0	-415.91	0	#######	0	nr	0
211	INC	nr	0	-44.23	0	nr	75	nr	50	-7.85	0	87.71	88	-760.67	0	-2002.04	0	nr	0
212	INC	nr	0	36.13	36	nr	0	nr	0	71.26	71	-491.78	0	-478.16	0	-1934.62	0	nr	0
214	INC	84.88	85	35.45	35	91.85	92	47.30	47	-1644.19	0	nr	25	-1521.60	0	-561.99	0	-744.59	0
216	INC	-45.02	0	50.15	50	92.40	92	38.76	39	-165.50	0	nr	0	nr	0	-869.84	0	nr	0
221	INC	-258.57	0	-5.42	0	-46.48	0	-31.44	0	-104.71	0	83.63	84	-464.12	0	-552.36	0	-19.05	0
222	INC	nr	50	-597.56	0	-2035.46	0	nr	0	-1667.15	0	-167.01	0	-6003.91	0	-167.49	0	56.90	57
229	INC	nr	0	21.26	21	-32.26	0	-33.89	0	71.33	71	nr	75	nr	0	nr	75	90.94	91
324	INC	nr	0	-38.89	0	90.69	91	27.68	28	75.75	76	nr	0	nr	0	-219.83	0	nr	0
325	INC	-3.78	0	-361.53	0	32.20	32	-152.27	0	-367.54	0	nr	75	-2263.92	0	-867.74	0	nr	0
327	INC	96.53	97	-1094.70	0	-192.11	0	-200.94	0	-670.26	0	-453.59	0	-284.23	0	-1096.05	0	96.88	97
329	INC	nr	75	50.74	51	nr	75	nr	75	-256.06	0	-181.09	0	-708.58	0	-935.58	0	nr	50
330	INC	-475.48	0	64.37	64	82.35	82	-49.79	0	50.72	51	nr	0	nr	0	nr	0	98.11	98
331	INC	33.89	34	-87.50	0	98.38	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-629.93	0
332	INC	nr	0	87.30	87	nr	0	nr	0	34.85	35	94.78	95	nr	0	80.00	80	nr	75
333	INC	nr	0	-1053.82	0	nr	0	nr	50	56.80	57	-76.65	0	nr	0	-2136.89	0	nr	0
334	INC	-401.49	0	72.94	73	98.68	99	84.07	84	-57.03	0	nr	0	-885.83	0	-34.96	0	73.68	74
337	INC	81.67	82	-6247.01	0	27.17	27	64.19	64	-7078.53	0	80.05	80	-514.48	0	#######	0	nr	0
338	INC	50.46	50	-1099.99	0	-102.30	0	-5.63	0	-16691.60	0	-1938.12	0	-994.39	0	-4878.93	0	nr	0
339	INC	nr	75	-414.21	0	nr	50	nr	0	-43.75	0	-7449.86	0	-1513.97	0	nr	0	nr	0
340	INC	-191.15	0	-130.06	0	-588.07	0	-597.04	0	-49.86	0	nr	75	-1138.46	0	-238.04	0	nr	0
341	INC	-3115.38	0	-916.94	0	-333.83	0	-944.00	0	-1595.10	0	nr	0	nr	0	-73.46	0	nr	0
342	INC	-347.50	0	-316.97	0	-210.32	0	-3408.50	0	-11883.28	0	nr	75	nr	0	nr	0	nr	0
344	INC	nr	50	-826.62	0	-271.78	0	-16.98	0	-2652.25	0	nr	0	-1015.00	0	-519.62	0	nr	0
346	INC	#######	0	-1067.30	0	33.47	33	-553.14	0	-3233.16	0	nr	75	nr	0	-255.68	0	-309.84	0
347	INC	-480.81	0	-115.39	0	-468.68	0	-443.92	0	-1578.83	0	nr	0	nr	0	nr	0	-2490.67	0
348	INC	nr	75	-1399.99	0	-593.53	0	-2435.15	0	-44841.42	0	-100.54	0	nr	0	-1104.17	0	nr	75
349	INC	nr	0	-690.51	0	-60.84	0	nr	75	nr	50	nr	75	nr	0	-1053.22	0	nr	0
350	INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-2870.43	0	nr	0
351	INC	nr	0	-68.16	0	nr	0	-645.40	0	nr	0	nr	75	nr	0	-35.23	0	nr	50
353	INC	-643.20	0	30.81	31	40.23	40	32.99	33	nr	0	nr	0	nr	0	-529.10	0	-293.70	0
354	INC	-3490.59	0	-141.54	0	-2429.72	0	-684.78	0	-4154.36	0	14.29	14	nr	0	-3281.50	0	-6711.99	0
356	INC	nr	0	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	0	-2601.64	0	nr	0
357	INC	nr	0	38.53	39	nr	75	nr	0	-268.06	0	nr	0	nr	0	-808.60	0	nr	0
358	INC	nr	0	52.79	53	nr	50	nr	0	-728.93	0	nr	75	nr	0	-6563.08	0	nr	0
359	INC	nr	75	19.91	20	88.43	88	99.85	100	-211.26	0	nr	0	nr	0	-0.58	0	nr	0
400	INC	-86.85	0	-152.37	0	91.99	92	27.87	28	nr	0	nr	75	nr	0	nr	0	nr	0
500	INC	-906.41	0	-767.27	0	-2012.85	0	-2249.06	0	-80.57	0	88.95	89	nr	0	nr	0	-1226.26	0
502	INC	nr	50	57.14	57	95.25	95	-5.12	0	-19.38	0	nr	0	nr	0	nr	0	-2142.15	0
503	INC	-93.40	0	43.40	43	92.20	92	81.34	81	nr	0	nr	75	nr	0	nr	50	nr	75
504	INC	98.38	98	16.67	17	-54.59	0	46.56	47	-446.47	0	nr	0	nr	0	nr	0	nr	0
600	INC	nr	0	-100.00	0	nr	0	nr	50	-2035.24	0	nr	75	nr	0	nr	0	nr	0
700	INC	-570.04	0	65.40	65	99.77	100	88.65	89	-89.72	0	-726.66	0	nr	0	nr	0	nr	0
701	INC	nr	0	65.22	65	nr	0	nr	75	-132.29	0	nr	0	-2497.40	0	nr	0	nr	50
702	INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr	0
703	INC	nr	75	-400.00	0	nr	0	nr	0	92.28	92	nr	0	-5235.72	0	-8580.92	0	nr	0
704	INC	nr	0	23.08	23	nr	0	nr	0	83.78	84	nr	75	nr	0	-2184.48	0	nr	0
705	INC	-134.03	0	43.74	44	64.66	65	32.84	33	-154.15	0	nr	0	nr	0	-3364.34	0	nr	75
706	INC	nr	0	64.87	65	nr	0	nr	0	-4633.70	0	nr	75	-285.81	0	-151.49	0	-2387.56	0
707	INC	nr	0	62.86	63	nr	75	nr	0	-394.52	0	nr	0	nr	0	98.57	99	nr	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj % Reduct
708	INC	nr	0	39.80	40	nr	0	nr	50	-3334.37	0	nr	75	nr	0	-1047.43	0	nr	75
709	INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-1464.15	0	-1188.66	0	nr	0
710	INC	nr	0	45.78	46	nr	75	nr	0	72.29	72	99.33	99	-57.89	0	-240.91	0	nr	0
711	INC	nr	0	47.67	48	nr	0	nr	0	-2880.51	0	nr	75	nr	0	-591.02	0	nr	0
712	INC	nr	0	30.97	31	-2569.12	0	-241.79	0	nr	0	nr	0	nr	0	nr	0	nr	0
713	INC	nr	0	77.78	78	nr	50	nr	0	4.33	4	nr	75	nr	0	-4897.31	0	nr	75
714	INC	nr	0	18.48	18	nr	75	nr	0	50.00	50	nr	0	nr	0	-490.50	0	nr	50
725	INC	-1761.35	0	24.62	25	-52.46	0	-69.64	0	-361.62	0	98.28	98	-1042.86	0	-2320.90	0	-140.38	0
726	INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	-36.95	0	-394.32	0	nr	0
727	INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	89.16	89	95.49	95	nr	0
728	INC	nr	0	65.04	65	nr	0	nr	0	-6322.20	0	nr	75	nr	0	nr	0	nr	75
784	INC	nr	0	63.41	63	nr	75	nr	50	97.23	97	nr	0	nr	0	-2646.55	0	nr	0
805	INC	nr	0	73.50	73	nr	0	nr	0	nr	50	80.29	80	-316.46	0	70.78	71	nr	75
806	INC	80.98	81	66.47	66	89.06	89	-1025.54	0	43.50	44	nr	75	-31.36	0	49.17	49	nr	0
807	INC	-162.61	0	39.43	39	66.18	66	53.04	53	-1127.50	0	-237.27	0	-795.81	0	-1762.35	0	-43.68	0
808	INC	nr	0	-38.32	0	nr	75	nr	50	-5888.96	0	nr	0	nr	0	-96.76	0	-224.68	0
809	INC	nr	0	nr	0	99.41	99	97.87	98	nr	0	nr	75	-354.42	0	91.87	92	nr	75
810	INC	nr	0	nr	0	95.89	96	86.54	87	nr	0	nr	0	nr	0	-543.78	0	nr	0
824	INC	-4118.58	0	-134.37	0	-25.66	0	29.62	30	-965.34	0	nr	75	nr	0	-1074.27	0	nr	0
825	INC	nr	50	80.00	80	nr	0	nr	0	-966.47	0	nr	0	nr	0	nr	75	nr	50
902	INC	35.72	36	28.23	28	-148.65	0	-725.08	0	-451.17	0	nr	0	-354.81	0	-153.83	0	-8069.93	0
904	INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	-159.94	0	#######	0	nr	0
905	INC	nr	0	nr	0	99.77	100	56.79	57	nr	0	nr	0	nr	0	-172.96	0	nr	0
906	INC	nr	0	77.68	78	nr	50	nr	75	81.73	82	nr	25	-891.12	0	-1559.85	0	nr	75
914	INC	nr	0	-257.14	0	nr	0	nr	50	nr	75	93.78	94	nr	75	-2677.78	0	88.61	89
915	INC	nr	75	73.45	73	95.11	95	88.18	88	nr	50	nr	0	6.98	7	84.49	84	-17.65	0

TABLE C-3b. MODEL GROUP SELECTION FOR OPTION 1A WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emissions Reduction Required to Meet Option 1A with 0% Feed Control									Model Group	APCD Temp	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	THC	CO	D/F			
200	CK	FF	0	0	12	79	0	0	0	na	25	18	550	Add WQ + FF
201	CK	FF	0	0	0	77	0	0	0	na	50	18	550	Add WQ + FF
202	CK	FF	0	0	47	0	0	0	0	na	0	7	440	Moderate DOM on FF
203	CK	ESP	0	0	89	0	47	0	0	na	91	16	500	Add WQ + CI + FF + PT
204	CK	ESP	0	0	87	0	0	0	0	na	12	18	600	Add WQ + FF
205	CK	ESP	0	35	96	0	0	0	0	na	0	3	500	Add FF
206	CK	ESP	0	0	78	0	25	0	0	na	57	19	500	Add WQ + IWS
207	CK	MC/ESP	0	0	83	0	0	0	0	na	0	3	400	Add FF
208	CK	ESP	0	0	30	0	0	0	0	na	0	2	420	Moderate DOM on ESP
228	CK	ESP	25	0	75	0	0	0	0	na	0	5	500	Add WQ + CI + FF
300	CK	ESP	0	58	97	9	0	0	0	na	96	5	600	Add WQ + CI + FF
301	CK	FF	9	24	0	0	0	0	0	na	75	4	400	Add CI + FF
302	CK	ESP	0	0	93	0	0	0	0	na	0	3	420	Add FF
303	CK	QC/FF	0	0	0	0	0	0	0	na	0	1	250	None
304	CK	ESP	0	49	90	0	0	0	0	na	72	5	460	Add WQ + CI + FF
305	CK	ESP	0	59	94	0	42	0	0	na	99	16	730	Add WQ + CI + FF + PT
306	CK	MC/FF	97	0	0	0	0	0	0	na	0	5	550	Add WQ + CI + FF
308	CK	ESP	0	0	33	0	0	0	0	na	75	20	440	Moderate DOM on ESP + WQ
309	CK	MC/ESP	0	0	90	0	0	0	0	na	99	5	640	Add WQ + CI + FF
315	CK	FF	0	0	0	0	0	0	0	na	50	17	450	Add WQ
316	CK	FF	0	0	0	0	0	0	0	na	0	1	500	None
317	CK	FF	0	0	0	0	0	0	0	na	60	5	500	Add WQ + CI + FF
318	CK	ESP	0	0	54	0	0	0	0	na	75	4	420	Add CI + FF
319	CK	ESP	0	20	90	0	0	90	0	na	91	19	540	Add WQ + IWS
320	CK	FF	0	0	0	0	0	52	0	na	0	9	480	Add PT
321	CK	ESP	0	71	0	0	0	61	0	na	75	8	240	Add CI + FF + PT
322	CK	ESP	0	0	60	0	0	0	0	na	81	20	550	Moderate DOM on ESP + WQ
323	CK	ESP	75	0	93	0	27	0	0	na	86	16	500	Add WQ + CI + FF + PT
335	CK	ESP	0	0	91	0	46	0	0	na	98	19	718	Add WQ + IWS
401	CK	ESP	0	42	93	19	0	0	0	na	0	3	400	Add FF
402	CK	ESP	0	44	98	25	0	71	0	na	75	8	450	Add CI + FF + PT
403	CK	ESP	88	13	0	0	0	0	0	na	53	5	500	Add WQ + CI + FF
404	CK	ESP	0	0	0	37	14	34	0	na	45	19	500	Add WQ + IWS
405	CK	ESP	0	0	94	72	0	0	0	na	50	4	250	Add CI + FF

TABLE C-3b. MODEL GROUP SELECTION FOR OPTION 1A WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emissions Reduction Required to Meet Option 1A with 0% Feed Control									Model Group	APCD Temp	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	THC	CO	D/F			
223	LWAK	FF	3	0	0	0	40	0	0	0	0	4		Add CI + FF + ST
224	LWAK	FF	0	0	0	0	0	0	0	0	0	1		None
225	LWAK	FF	0	0	0	0	0	0	0	0	0	1		None
226	LWAK	FF	0	0	0	0	0	0	0	0	0	1		None
227	LWAK	FF	0	0	0	0	14	0	0	0	0	5		Add ST
307	LWAK	FF/VS	94	0	0	0	0	0	0	0	0	3		Add CI + FF
310	LWAK	FF	0	6	82	0	0	0	0	0	0	2		Add FF
311	LWAK	FF	0	0	87	0	0	66	0	0	0	6		Add IWS
312	LWAK	FF	0	0	86	0	0	69	0	0	0	6		Add IWS
313	LWAK	FF	0	0	87	73	15	0	0	0	0	6		Add IWS
314	LWAK	FF	0	42	96	61	0	0	0	0	0	2		Add FF
336	LWAK	FF	0	0	75	0	0	0	0	0	0	2		Add FF

TABLE C-3b. MODEL GROUP SELECTION FOR OPTION 1A WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emissions Reduction Required to Meet Option 1A with 0% Feed Control									Model Group	APCD Temp	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	THC	CO	D/F			
209	INC	WHB/FF/VQ/PT/DM	0	0	0	0	0	95	25	63	75	35		Moderate DOM on combustor + Add WQ + PT
210	INC	FF/S	75	0	50	75	26	0	0	0	0	3		Moderate DOM on WS + Add RH + CI + FF
211	INC	SS/PT/VS	0	0	75	50	0	88	0	0	0	4		Add IWS
212	INC	FF/S	0	36	0	0	71	0	0	0	0	7		Moderate DOM on FF and WS
214	INC	IWS	85	35	92	47	0	25	0	0	0	29		Small DOM on IWS + Add RH + CI + FF
216	INC	HES/WS	0	50	92	39	0	0	0	0	0	6		Add FF
221	INC	PT	0	0	0	0	0	84	0	0	0	2		Add PT
222	INC	WHB/SD/ESP/Q/PBS	50	0	0	0	0	0	0	0	57	8	383	Add CI
229	INC	WHB/ACS/HCS/CS	0	21	0	0	71	75	0	75	91	43		Add AB + IWS + RH + CB
324	INC	?	0	0	91	28	76	0	0	0	0	4		Add IWS
325	INC	SD/FF/WS/IWS	0	0	32	0	0	75	0	0	0	11		Moderate DOM on FF + Add PT
327	INC	SD/FF/WS/ESP	97	0	0	0	0	0	0	0	97	8		Add CI
329	INC	PT/IWS	75	51	75	75	0	0	0	0	50	9		Add RH + CI + FF
330	INC	QT/WS/DM	0	64	82	0	51	0	0	0	98	3		Moderate DOM on WS + Add RH + CI + FF
331	INC	PT/IWS	34	0	98	0	75	75	0	0	0	13		Add PT + RH + CI + FF
332	INC	WS	0	87	0	0	35	95	0	80	75	48		Add AB + WQ +CI + FF + PT
333	INC	SD/FF	0	0	0	50	57	0	0	0	0	14		Moderate DOM on SD and FF
334	INC	WS/ESP/PT	0	73	99	84	0	0	0	0	74	10		Add WQ + CI + FF
337	INC	WHB/DA/DI/FF	82	0	27	64	0	80	0	0	0	15	413	Moderate DOM on FF + Add CI + PT
338	INC	QC/FF/SS/C/HES/DM	50	0	0	0	0	0	0	0	0	8	415	Add CI
339	INC	AT/PT/RJS/ESP	75	0	50	0	0	0	0	0	0	28		Moderate DOM ESP + Add RH + CB
340	INC	WHB/ESP/WS	0	0	0	0	0	75	0	0	0	2	444	Add PT
341	INC	DA/DI/FF/HEPA/CA	0	0	0	0	0	0	0	0	0	1		None
342	INC	WHB/QC/S/VS/DM	0	0	0	0	0	75	0	0	0	2		Add PT
344	INC	QC/VS/PT/DM	50	0	0	0	0	0	0	0	0	9		Add RH + CI + FF
346	INC	C/QC/VS/PT/DM	0	0	33	0	0	75	0	0	0	16		Moderate DOM on VS + Add PT
347	INC	C/QC/VS/S/DM	0	0	0	0	0	0	0	0	0	1		None
348	INC	QC/AS/IWS	75	0	0	0	0	0	0	0	75	32		Add RH + CB
349	INC	QC/FF/QC/PT	0	0	0	75	50	75	0	0	0	4	350	Add IWS
350	INC	WHB/HE/FF	0	0	75	50	0	0	0	0	0	6		Add FF
351	INC	GC/C/FF	0	0	0	0	0	75	0	0	50	34	290	Add CI + PT
353	INC	QC/VS/DM/ESP	0	31	40	33	0	0	0	0	0	17		Moderate DOM on ESP
354	INC	QC/AS/VS/DM/IWS	0	0	0	0	0	14	0	0	0	18		Small DOM on WS
356	INC	QC/AS/FN/DM	0	52	0	0	0	75	0	0	0	4		Add IWS
357	INC	QC/VS/PT/IWS	0	39	75	0	0	0	0	0	0	6		Add FF
358	INC	QC/VS/C/CT/S/DM	0	53	50	0	0	75	0	0	0	16		Moderate DOM on VS + Add PT
359	INC	WHB/FF/S	75	20	88	100	0	0	0	0	0	9	375	Add RH + CI + FF
400	INC	SD/FF	0	0	92	28	0	75	0	0	0	4	400	Add IWS
500	INC	QC/VS/KOV/DM	0	0	0	0	0	89	0	0	0	2		Add PT
502	INC	WHB/QC/PBC/VS/ES	50	57	95	0	0	0	0	0	0	9		Add RH + CI + FF
503	INC	HTHE/LTHE/FF	0	43	92	81	0	75	0	50	75	38	285	Moderate DOM on combustor + Add CI + IWS
504	INC	VS/C	98	17	0	47	0	0	0	0	0	9		Add RH + CI + FF
600	INC	WHB/QC/PT/IWS	0	0	0	50	0	75	0	0	0	4		Add IWS
700	INC	SD/RJS/VS/WS	0	65	100	89	0	0	0	0	0	6		Add FF
701	INC	VS/PT	0	65	0	75	0	0	0	0	50	9		Add RH + CI + FF
702	INC	QT/S/C	0	82	75	0	0	75	0	0	0	4		Add IWS
703	INC	WHB	75	0	0	0	92	0	0	0	0	20		Add WQ + CB + PT
704	INC	NONE	0	23	0	0	84	75	0	0	0	4		Add IWS

TABLE C-3b. MODEL GROUP SELECTION FOR OPTION 1A WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emissions Reduction Required to Meet Option 1A with 0% Feed Control									Model Group	APCD Temp	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	THC	CO	D/F			
705	INC	QT/VS/ESP/PT	0	44	65	33	0	0	0	0	75	49		Add CI + FF
706	INC	QT/HS/C	0	65	0	0	0	75	0	0	0	16		Moderate DOM on VS + Add PT
707	INC	QT/WS	0	63	75	0	0	0	0	99	0	21		Add AB + FF
708	INC	WS/ESP	0	40	0	50	0	75	0	0	75	45		Add CI + FF + PT
709	INC	NONE	50	63	0	0	0	0	0	0	0	10		Add WQ + CI + FF
710	INC	QT/OS/C/S	0	46	75	0	72	99	0	0	0	4		Add IWS
711	INC	C/VS/AS	0	48	0	0	0	75	0	0	0	16		Moderate DOM on VS + Add PT
712	INC	NONE	0	31	0	0	0	0	0	0	0	6		Add FF
713	INC	VS/PT	0	78	50	0	4	75	0	0	75	41		Add WQ + PT + CI + FF
714	INC	WS	0	18	75	0	50	0	0	0	50	3		Moderate DOM on WS + Add RH + CI + FF
725	INC	WS/QT	0	25	0	0	0	98	0	0	0	4		Add IWS
726	INC	QC/CS/DM/VS	75	0	75	75	0	75	0	0	0	13		Add PT + RH + CI + FF
727	INC	GC/C/FF	0	82	75	50	0	0	89	95	0	21		Add AB + FF
728	INC	QT/PT/VS	0	65	0	0	0	75	0	0	75	37		Moderate DOM on VS + Add PT + RH + CB
784	INC	NONE	0	63	75	50	97	0	0	0	0	4		Add IWS
805	INC	QT/QS/VS/ES/PBS	0	73	0	0	50	80	0	71	75	47		Moderate DOM on VS and combus. + Add RH + CB + PT
806	INC	C/VS	81	66	89	0	44	75	0	49	0	24		Moderate DOM on combustor + Add RH + CI + FF + PT
807	INC	C/WHB/VQ/PT/HS/DM	0	39	66	53	0	0	0	0	0	19		Moderate DOM on VS
808	INC	QT/PBS/ESP	0	0	75	50	0	0	0	0	0	6		Add FF
809	INC	VS	0	0	99	98	0	75	0	92	75	48		Add AB + WQ +CI + FF + PT
810	INC	Q/VS/PBS	0	0	96	87	0	0	0	0	0	6		Add FF
824	INC	QT/VS/PT/DM	0	0	0	30	0	75	0	0	0	16		Moderate DOM on VS + Add PT
825	INC	CCS/QC/ESP	50	80	0	0	0	0	0	75	50	25		Add AB + RH + CI + FF
902	INC	QT/VS/PT	36	28	0	0	0	0	0	0	0	9		Add RH + CI + FF
904	INC	?	0	0	75	0	0	0	0	0	0	6		Add FF
905	INC	QT/VS/AS/CS	0	0	100	57	0	0	0	0	0	6		Add FF
906	INC	QT/PT	0	78	50	75	82	25	0	0	75	13		Add PT + RH + CI + FF
914	INC	?	0	0	0	50	75	94	75	0	89	48		Add AB + WQ +CI + FF + PT
915	INC	QC/VS/C	75	73	95	88	50	0	7	84	0	26		Moderate DOM on VS + Add AB + RH + CI + FF

TABLE C-3c. CHARACTERIZATION OF MODEL PLANTS, OPTION 1A, 0% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
CK	Group 1	None	1	303	L	Lone Star	MC/FF	408,681	370,000	
			1	316	L	Southdown	FF	nr	370,000	
	Group 2	Moderate DOM on ESP	1	208	L	Keystone	ESP	307,644	370,000	
	Group 3	Add FF	1	207	S	Keystone	MC/ESP	90,681	147,000	
			2	302	S	Lafarge	ESP	130,576	147,000	
			1	401	S	Ash Grove	ESP	172,481	147,000	
			1	205	L	Holnam	ESP	253,556	370,000	
	Group 4	Add CI + FF	1	301	S	Essroc	FF	185,409	147,000	
			4	318 *	S	Texas Industries	ESP	152,675	147,000	
			1	405 *	S	Ash Grove	ESP	194,905	147,000	
	Group 5	Add CI + FF + WQ	1	228 *	S	Ash Grove	ESP	148,537	147,000	
			2	300	S	Essroc	ESP	164,692	147,000	
			1	403	S	Ash Grove	ESP	184,877	147,000	
			1	304	L	Lone Star	ESP	300,367	370,000	
			1	306	L	National	MC/FF	280,868	370,000	
			1	309	L	River Cement	MC/ESP	665,839	370,000	
			1	317	L	Southdown	FF	422,190	370,000	
	Group 7	Moderate DOM on FF	1	202	L	Heartland	FF	221,421	370,000	
	Group 8	Add CI + FF + PT	1	321 *	S	Lafarge	ESP	59,542	147,000	85
			1	402 *	S	Ash Grove	ESP	187,605	147,000	85
	Group 9	Add PT	3	320	L	Lafarge	FF	nr	370,000	85
	Group 16	Add CI + FF + PT + WQ	2	305	S	Medusa	ESP	196,903	147,000	85
			1	323	S	Lafarge	FF	185,409	147,000	85
			1	203	L	Holnam	ESP	291,645	370,000	85
	Group 17	Add WQ	1	315 *	S	Southdown	FF	102,042	147,000	
	Group 18	Add FF + WQ	2	200 *	S	Giant	FF	123,584	147,000	
			2	201 *	S	Giant	FF	137,945	147,000	
			1	204	L	Holnam	ESP	693,613	370,000	
	Group 19	Add IWS + WQ	1	335	S	Medusa	ESP	100,378	147,000	85
			1	206	L	Holnam	ESP	348,510	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
			1	404	L	Ash Grove	ESP	265,721	370,000	85
	Group 20	Moderate DOM on ESP + WQ	3	308 *	S	North Texas	ESP	162,599	147,000	
			1	322	S	Lafarge	ESP	112,269	147,000	
LWAK	Group 1	None	1	224	M	Solite	FF	39,049	40,500	
			1	225	M	Solite	FF	38,270	40,500	
LWAK			1	226	M	Solite	FF	nr	40,500	
(cont.)	Group 2	Add FF	1	310	M	Solite	FF	47,770	40,500	
			1	314	M	Solite	FF	36,793	40,500	
			1	336 *	M	Solite	FF	30,336	40,500	
	Group 3	Add CI + FF	2	307	M	Norlite	FF/VS	49,050	40,500	
	Group 4	Add CI + FF + ST	1	223	M (hi HCl)	Solite	FF	29,092	40,500	1,570
	Group 5	Add ST	1	227	M (hi HCl)	Solite	FF	38,796	40,500	1,570
	Group 6	Add IWS	1	311	M (hi HCl)	Solite	FF	51,627	40,500	1,570
			1	312	M (hi HCl)	Solite	FF	47,698	40,500	1,570

TABLE C-3c. CHARACTERIZATION OF MODEL PLANTS, OPTION 1A, 0% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
			1	313	M (hi HCl)	Solite	FF	36,793	40,500	1,570
INC	Group 1	None	1	341	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
	Group 2	Add PT	1	342 *	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92
			1	340 *	M	Miles	WHB/ESP/WS	16,003	22,100	92
			1	221	L	Rollins	PT	51,114	60,800	92
			1	500	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92
	Group 3	Moderate DOM on WS + Add CI + FF + RH	1	330	M	General Electric	QT/WS/DM	10,345	22,100	
			2	714 *	M	Olin Chemical	WS	19,185	22,100	
			1	210 *	L	LWD	FF/S	96,107	60,800	
	Group 4	Add IWS	2	349 *	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
			1	356 *	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	704	S	Ashland	NONE	5,011	3,900	92
			1	725 *	S	Zeneca	WS/QT	1,489	3,900	92
			1	784	S	Cook Composites	NONE	nr	3,900	92
			1	324	M	Allied	?	12,120	22,100	92
			1	702 *	M	Dupont	QT/S/C	nr	22,100	92
			1	710	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	211 *	L	LWD	SS/PT/VS	43,596	60,800	92
			1	400 *	L	Marine Shale	SD/FF	179,333	60,800	92
			1	600 *	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
	Group 6	Add FF	1	904 *	S	First Chemical	?	5,950	3,900	
			1	905	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	350 *	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	357 *	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
			1	808 *	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
			1	810	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
INC (cont.)			1	216	L	Rollins	HES/WS	40,002	60,800	
			1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	Moderate DOM on FF and WS	1	212	L	LWD	FF/S	44,610	60,800	
	Group 8	Add CI	1	222 *	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
			1	327	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
			1	338 *	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add CB + FF + RH	1	502 *	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	
			1	344 *	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	359 *	M	Atochem	WHB/FF/S	13,802	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	701 *	M	Eli Lilly	VS/PT	9,208	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	329 *	L	Dupont	PT/IWS	53,489	60,800	
	Group 10	Add CI + FF + WQ	1	709 *	S	Cargill Chemical	NONE	3,123	3,900	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	
	Group 11	Moderate DOM on FF + Add PT	1	325 *	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92
	Group 13	Add CI + FF + PT + RH	1	726 *	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	906 *	S	Monsanto	QT/PT	2,738	3,900	92

TABLE C-3c. CHARACTERIZATION OF MODEL PLANTS, OPTION 1A, 0% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
			1	331 *	L	Ross	PT/IWS	44,379	60,800	92
	Group 14	Moderate DOM on SD and FF	1	333 *	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	Moderate DOM on FF + Add CI + PT	2	337	M	Olin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 16	Moderate DOM on VS + Add PT	1	824 *	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92
			1	346 *	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92
			1	358 *	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	706 *	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
			1	711 *	L	Chevron Chemical	C/VS/AS	52,907	60,800	92
	Group 17	Moderate DOM on ESP	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
	Group 18	Small DOM on WS	1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
	Group 19	Moderate DOM on VS	1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
	Group 20	Add CB + PT + WQ	1	703 *	S	Aristech	WHB	1,873	3,900	92
	Group 21	Add AB + FF	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
			1	707	L	Dupont	QT/WS	58,120	60,800	
	Group 24	Moderate DOM on combustor + Add CI + FF + PT + RH	1	806 *	M	Amoco Oil	C/VS	20,641	22,100	92
	Group 25	Add AB + CI + FF + RH	1	825 *	M	General Electric	CCS/QC/ESP	21,363	22,100	
INC	Group 26	Moderate DOM on VS + Add AB + CI + FF + RH	1	915 *	M	Eastman Kodak	QC/VS/C	nr	22,100	
(cont.)	Group 28	Moderate DOM ESP + Add CB + RH	1	339 *	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
	Group 29	Small DOM on IWS + Add CI + FF + RH	1	214 *	M	Rollins	IWS	34,655	22,100	
	Group 32	Add CB + RH	1	348 *	S	Occidental Chemical	QC/AS/IWS	nr	3,900	
	Group 34	Add CI + PT	1	351 *	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
	Group 35	Moderate DOM on combustor + Add PT + WQ	1	209 *	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 37	Moderate DOM on VS + Add CB + PT + RH	1	728 *	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
	Group 38	Moderate DOM on combustor + Add CI + IWS	1	503 *	S	Lake City Army Ammo Plant	HTHE/LTHE/FF	4,747	3,900	92
	Group 41	Add CI + FF + PT + WQ	1	713 *	S	Pfizer	VS/PT	2,625	3,900	92
	Group 43	Add AB + CB + IWS + RH	1	229 *	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92
	Group 45	Add CI + FF + PT	1	708 *	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
	Group 47	Moderate DOM on VS and combus. + Add CB + PT + RH	1	805 *	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	92
	Group 48	Add AB + CI + FF + PT + WQ	1	332 *	M	Thermalkem	WS	20,208	22,100	92
			1	914 *	M	Vertac Superfund	?	25,849	22,100	92
			1	809 *	L	Tennessee Eastman	VS	40,524	60,800	92
	Group 49	Add CI + FF	1	705 *	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribution of reported values from other facilities.

** Reported Ratio is equal to the number of total units located at a site divided by the number of units for which information was reported.

Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units.

nr = not reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 1	L	None	1	$0K	$0K	$0K
	Group 2	L	DOM ESP mod	1	$3,136K	$287K	$699K
	Group 3	S	Add FF	1	$2,141K	$355K	$596K
		L		1	$5,072K	$754K	$1,325K
	Group 4	S	Add CI,FF	12	$2,611K	$718K	$1,022K
	Group 5	S	Add Q,CI,FF	4	$3,144K	$806K	$1,180K
		L		4	$6,570K	$1,645K	$2,414K
	Group 7	L	DOM FF mod	1	$315K	$104K	$115K
	Group 8	S	Add CI,FF,PT	2	$3,512K	$1,048K	$1,498K
	Group 9	L	Add PT	3	$1,934K	$684K	$999K
	Group 16	S	Add Q, CI, FF, PT	4	$4,045K	$1,136K	$1,656K
		L		2	$8,505K	$2,329K	$3,413K
	Group 17	S	Add Q	1	$533K	$88K	$158K
		L		1	$912K	$155K	$275K
	Group 18	S	Add Q, FF	4	$2,673K	$443K	$754K
		L		1	$5,984K	$909K	$1,601K
	Group 19	L	Add Q, IWS	2	$5,322K	$902K	$1,740K
	Group 20	S	Moderate DOM on existing ESP, Add Q	1	$2,290K	$237K	$538K
LWAKS	Group 1	M	None	3	$0K	$0K	$0K
	Group 2	M	Add FF	3	$661K	$161K	$236K
	Group 3	M	Add CI, FF	2	$1,074K	$350K	$480K
	Group 4	M (hi HCl)	Add CI, FF, ST	1	$2,302K	$680K	$1,009K
	Group 5	M (hi HCl)	Add ST	1	$1,229K	$330K	$530K
	Group 6	M (hi HCl)	Add IWS	3	$1,016K	$682K	$847K
Incinerators	Group 1	M	None	1	$0K	$0K	$0K
	Group 2	S	Add PT	1	$57K	$90K	$99K
		L		1	$445K	$195K	$267K
	Group 3	M	DOM WS mod, Add RH,CI/CB,FF	3	$1,004K	$405K	$541K
		L		1	$1,876K	$712K	$968K
	Group 4	S	Add IWS	4	$215K	$97K	$132K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators (cont.)		M		1	$680K	$144K	$254K
		L		2	$1,331K	$228K	$445K
	Group 6	S	Add FF	1	$82K	$89K	$98K
		M		5	$295K	$121K	$154K
		L		2	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
	Group 8	M	Add CI/CB	1	$397K	$147K	$199K
		L		3	$425K	$224K	$280K
	Group 9	S	Add RH, CI/CB, FF	2	$575K	$241K	$315K
		M		7	$932K	$391K	$508K
		L		2	$1,681K	$672K	$876K
	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
	Group 11	M	DOM FF mod, Add PT	1	$223K	$130K	$164K
	Group 13	S	Add PT, RH, CI/CB, FF	5	$632K	$331K	$414K
		M		2	$1,137K	$515K	$665K
		L		3	$2,126K	$866K	$1,143K
	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	2	$620K	$278K	$364K
	Group 16	S	DOM VS mod, Add PT	1	$68K	$96K	$109K
		M		3	$250K	$159K	$205K
	Group 17	M	DOM ESP mod	1	$535K	$50K	$120K
	Group 18	M	DOM WS small	1	$40K	$13K	$20K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K
		M		1	$879K	$319K	$441K
	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
	Group 24	M	DOM combustor, Add PT,RH,CI/CB,FF	2	$1,291K	$515K	$690K
	Group 25	M	Add AB,RH,CI/CB,FF	1	$1,349K	$924K	$1,096K
		L		1	$2,223K	$1,947K	$2,223K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$178K	$267K
	Group 29	M	DOM IWS small, Add RH,CI/CB,FF	1	$972K	$403K	$528K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
	Group 32	S	Add RH, CB/CI	1	$493K	$152K	$216K
	Group 34	S	Add CI/CB, PT	1	$398K	$181K	$235K
	Group 35	M	Moderate DOM on Combustor, Add Q, PT	1	$637K	$172K	$267K
	Group 36	L	Add CI/CB, IWS	1	$1,755K	$452K	$725K
	Group 37	S	Moderate DOM on existng VS, Add RH, CI/CB, PT	1	$561K	$248K	$326K
	Group 38	S	Moderate DOM on Combustor, Add CI/CB, IWS	1	$672K	$188K	$287K
	Group 39	M	Add RH, CI/CB, FF, PT, AB	3	$1,554K	$1,048K	$1,253K
		L		1	$2,669K	$2,142K	$2,490K
	Group 42	S	Add RH, CI/CB, IWS	1	$708K	$249K	$348K
	Group 43	S	Add RH, CI/CB, IWS, AB	1	$973K	$441K	$576K

TABLE C-4a. REQUIRED REDUCTION TO MEET OPTION 1A WITH 25% FEED REDUCTION

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
Floor Levels		105.00		0.03		60.00		80.00		60.00		1.00		20.00		na		0.50	
200	CK	-1291.04	0	-118.49	0	-11.18	0	75.85	76	-365.89	0	-12896.09	0	nr	50	na	na	nr	25
201	CK	-5177.97	0	-130.41	0	-50.56	0	73.25	73	-298.50	0	-24771.29	0	nr	0	na	na	nr	50
202	CK	-581.11	0	-25.37	0	33.56	34	-215.07	0	-374.52	0	-385.88	0	nr	25	na	na	nr	0
203	CK	-2243.94	0	-119.51	0	86.27	86	-236.48	0	30.76	31	-70.10	0	-5.26	0	na	na	91.07	91
204	CK	-702.39	0	0.26	0	84.04	84	-1362.77	0	-130000.40	0	-12137.22	0	nr	0	na	na	12.28	12
205	CK	-374.00	0	35.22	35	94.73	95	-366.92	0	-397.63	0	-532.00	0	10.95	11	na	na	-407.61	0
206	CK	-760.87	0	-25.08	0	72.13	72	-984.03	0	3.33	3	-3047.41	0	-65.62	0	na	na	56.52	57
207	CK	-737.79	0	-31.99	0	79.05	79	-381.13	0	-1689.68	0	-341.44	0	nr	0	na	na	-3025.00	0
208	CK	-579.25	0	-108.75	0	12.33	12	-677.54	0	-1861.54	0	-455.75	0	nr	0	na	na	-10745.99	0
228	CK	nr	25	nr	0	nr	75	nr	0	nr	0	nr	0	-18.34	0	na	na	-143.90	0
300	CK	nr	0	58.04	58	96.03	96	-6.02	0	-133.28	0	-342.19	0	-4.58	0	na	na	95.83	96
301	CK	-20.88	0	23.80	24	-730.24	0	-453.52	0	-35034.62	0	-630.73	0	-65.70	0	na	na	nr	75
302	CK	nr	0	-44.64	0	91.40	91	-355.66	0	-700.48	0	-176.54	0	nr	0	na	na	nr	0
303	CK	-380.94	0	-30.43	0	-199.20	0	-682.96	0	-1955.87	0	-1210.34	0	66.67	67	na	na	nr	0
304	CK	-209.54	0	48.89	49	87.73	88	-130.78	0	-22535.67	0	-30004.93	0	nr	0	na	na	72.22	72
305	CK	-1203.34	0	58.80	59	92.98	93	-212.74	0	25.45	25	-430.90	0	10.42	10	na	na	99.12	99
306	CK	95.99	96	-99.06	0	-367.57	0	-601.90	0	-3633.80	0	-669.23	0	nr	0	na	na	-815.75	0
308	CK	nr	0	-36.36	0	15.76	16	-1139.78	0	-1621.71	0	-68.87	0	nr	25	na	na	nr	75
309	CK	-262.67	0	-25.78	0	87.03	87	-1843.95	0	-64.30	0	-1060.80	0	-32.45	0	na	na	99.04	99
315	CK	nr	0	-2740.15	0	-413.88	0	-730.10	0	-3762.94	0	-5273.91	0	nr	50	na	na	nr	50
316	CK	nr	0	-154.44	0	-1240.79	0	-1238.86	0	-196.56	0	-43.33	0	-233.33	0	na	na	nr	0
317	CK	nr	0	-1230.87	0	-162.65	0	-296.42	0	-1653.41	0	-2574.16	0	64.17	64	na	na	59.68	60
318	CK	nr	0	-225.02	0	41.59	42	-401.89	0	-63.11	0	-1460.26	0	-207.69	0	na	na	nr	75
319	CK	-153.11	0	20.00	20	87.88	88	-46.20	0	-30.38	0	87.33	87	68.94	69	na	na	91.06	91
320	CK	nr	0	-899.98	0	-3311.75	0	-2000.16	0	-2653.29	0	37.65	38	80.10	80	na	na	-492.42	0
321	CK	nr	0	71.43	71	-1038.05	0	-1518.62	0	-1645.51	0	49.40	49	nr	50	na	na	nr	75
322	CK	nr	0	-130.76	0	49.25	49	-258.34	0	-260.41	0	-534.67	0	-170.27	0	na	na	81.34	81
323	CK	nr	75	-7.14	0	91.25	91	-15.59	0	6.12	6	-1427.98	0	-90.48	0	na	na	86.11	86
335	CK	-247.47	0	-48.08	0	89.12	89	-767.16	0	29.91	30	-221.34	0	-12.55	0	na	na	97.99	98
401	CK	-131.03	0	42.41	42	91.62	92	6.01	6	-261.48	0	-128.90	0	61.33	61	na	na	-28.21	0
402	CK	-335.58	0	43.93	44	97.77	98	12.79	13	-451.10	0	62.93	63	33.05	33	na	na	nr	75
403	CK	83.90	84	13.39	13	-152.84	0	-182.29	0	-13145.69	0	-5893.12	0	-13.19	0	na	na	53.27	53
404	CK	-3191.96	0	-528.18	0	-36.09	0	27.44	27	-10.95	0	14.22	14	-25.96	0	na	na	44.69	45
405	CK	-593.43	0	-36.56	0	92.04	92	67.60	68	-3224.52	0	-253.98	0	6.65	7	na	na	nr	50

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
Floor Levels		30.00		0.015		60.00		80.00		1300.00		2.50		20.00		100.00		0.50	
223	LWAK	-7.48	0	-479.94	0	-1304.10	0	-124.69	0	19.94	20	-431.63	0	nr	0	nr	0	nr	0
224	LWAK	-132.64	0	-427.20	0	-1893.38	0	-331.05	0	-179818.36	0	-669.78	0	nr	0	nr	75	nr	0
225	LWAK	-611.87	0	-4045.81	0	-8044.14	0	-692.88	0	-187.02	0	-2277.15	0	nr	0	nr	0	nr	0
226	LWAK	nr	0	-1385.13	0	nr	0	nr	0	nr	0	nr	0	nr	0	nr	75	nr	0
227	LWAK	-99.44	0	-926.73	0	-287.87	0	-297.03	0	-13.96	0	-674.17	0	-60.00	0	92.51	93	nr	0
307	LWAK	93.22	93	-38.09	0	-1282.19	0	-25.21	0	-7777.68	0	-465.77	0	nr	0	-120.61	0	nr	0
310	LWAK	-140.88	0	6.25	6	76.47	76	-33.99	0	-44.98	0	-51.18	0	nr	0	nr	0	nr	0
311	LWAK	-120.44	0	-150.00	0	82.22	82	-121.23	0	-41.49	0	54.85	55	nr	0	nr	75	nr	0
312	LWAK	-295.26	0	-114.28	0	81.33	81	-126.36	0	-34.10	0	58.97	59	nr	0	nr	0	nr	0
313	LWAK	-8885.09	0	-150.00	0	82.36	82	72.82	73	-13.09	0	-438.64	0	nr	0	nr	75	nr	0
314	LWAK	-32.20	0	42.18	42	95.20	95	60.57	61	-111.03	0	-71.55	0	nr	0	nr	0	nr	0
336	LWAK	nr	0	-84.34	0	nr	75	nr	0	nr	0	nr	0	nr	0	nr	75	-1195.34	0

TABLE C-4a. REQUIRED REDUCTION TO MEET OPTION 1A WITH 25% FEED REDUCTION

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
Floor Levels		30.00		0.015		60.00		80.00		25.00		1.00		20.00		100.00		0.50	
209	INC	-1148.23	0	-223.01	0	-901.19	0	-254.98	0	-213.86	0	93.77	94	nr	25	63.16	63	nr	75
210	INC	nr	25	-192.21	0	nr	50	nr	75	0.74	1	-323.19	0	-415.91	0	-27385.21	0	nr	0
211	INC	nr	0	-44.23	0	nr	75	nr	50	-43.80	0	83.61	84	-760.67	0	-2002.04	0	nr	0
212	INC	nr	0	36.13	36	nr	0	nr	0	61.68	62	-689.04	0	-478.16	0	-1934.62	0	nr	0
214	INC	79.84	80	35.45	35	89.14	89	47.30	47	-2225.59	0	nr	25	-1521.60	0	-561.99	0	-744.59	0
216	INC	-93.36	0	50.15	50	89.87	90	38.76	39	-254.00	0	nr	0	nr	0	-869.84	0	nr	0
221	INC	-378.09	0	-5.42	0	-95.30	0	-31.44	0	-172.95	0	78.17	78	-464.12	0	-552.36	0	-19.05	0
222	INC	nr	50	-597.56	0	-2747.28	0	nr	0	-2256.19	0	-256.01	0	-6003.91	0	-167.49	0	56.90	57
229	INC	nr	0	21.26	21	-76.35	0	-33.89	0	61.77	62	nr	75	nr	0	nr	75	90.94	91
324	INC	nr	0	-38.89	0	87.59	88	27.68	28	67.66	68	nr	0	nr	0	-219.83	0	nr	0
325	INC	-38.37	0	-361.53	0	9.60	10	-152.27	0	-523.38	0	nr	75	-2263.92	0	-867.74	0	nr	0
327	INC	95.37	95	-1094.70	0	-289.48	0	-200.94	0	-927.02	0	-638.11	0	-284.23	0	-1096.05	0	96.88	97
329	INC	nr	75	50.74	51	nr	75	nr	75	-374.75	0	-274.78	0	-708.58	0	-935.58	0	nr	50
330	INC	-667.30	0	64.37	64	76.47	76	-49.79	0	34.29	34	nr	0	nr	0	nr	0	98.11	98
331	INC	11.85	12	-87.50	0	97.84	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-629.93	0
332	INC	nr	0	87.30	87	nr	0	nr	0	13.13	13	93.04	93	nr	0	80.00	80	nr	75
333	INC	nr	0	-1053.82	0	nr	0	nr	50	42.40	42	-135.54	0	nr	0	-2136.89	0	nr	0
334	INC	-568.65	0	72.94	73	98.24	98	84.07	84	-109.38	0	nr	0	-885.83	0	-34.96	0	73.68	74
337	INC	75.56	76	-6247.01	0	2.90	3	64.19	64	-9471.38	0	73.40	73	-514.48	0	-13061.51	0	nr	0
338	INC	33.95	34	-1099.99	0	-169.74	0	-5.63	0	-22288.80	0	-2617.49	0	-994.39	0	-4878.93	0	nr	0
339	INC	nr	75	-414.21	0	nr	25	nr	0	-91.67	0	-9966.49	0	-1513.97	0	nr	0	nr	0
340	INC	-288.20	0	-130.06	0	-817.42	0	-597.04	0	-99.81	0	nr	50	-1138.46	0	-238.04	0	nr	0
341	INC	-4187.18	0	-916.94	0	-478.44	0	-944.00	0	-2160.14	0	nr	0	nr	0	-73.46	0	nr	0
342	INC	-496.67	0	-316.97	0	-313.76	0	-3408.50	0	-15877.71	0	nr	75	nr	0	nr	0	nr	0
344	INC	nr	25	-826.62	0	-395.71	0	-16.98	0	-3569.67	0	nr	0	-1015.00	0	-519.62	0	nr	0
346	INC	-14284.42	0	-1067.30	0	11.30	11	-553.14	0	-4344.22	0	nr	75	nr	0	-255.68	0	-309.84	0
347	INC	-674.41	0	-115.39	0	-658.24	0	-443.92	0	-2138.44	0	nr	0	nr	0	nr	0	-2490.67	0
348	INC	nr	75	-1399.99	0	-824.71	0	-2435.15	0	-59821.89	0	-167.39	0	nr	0	-1104.17	0	nr	75
349	INC	nr	0	-690.51	0	-114.45	0	nr	75	nr	50	nr	75	nr	0	-1053.22	0	nr	0
350	INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-2870.43	0	nr	0
351	INC	nr	0	-68.16	0	nr	0	-645.40	0	nr	0	nr	50	nr	0	-35.23	0	nr	50
353	INC	-890.94	0	30.81	31	20.30	20	32.99	33	nr	0	nr	0	nr	0	-529.10	0	-293.70	0
354	INC	-4687.46	0	-141.54	0	-3272.96	0	-684.78	0	-5572.48	0	-14.29	0	nr	0	-3281.50	0	-6711.99	0
356	INC	nr	0	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	0	-2601.64	0	nr	0
357	INC	nr	0	38.53	39	nr	75	nr	0	-390.75	0	nr	0	nr	0	-808.60	0	nr	0
358	INC	nr	0	52.79	53	nr	50	nr	0	-1005.24	0	nr	75	nr	0	-6563.08	0	nr	0
359	INC	nr	75	19.91	20	84.57	85	99.85	100	-315.01	0	nr	0	nr	0	-0.58	0	nr	0
400	INC	-149.13	0	-152.37	0	89.32	89	27.87	28	nr	0	nr	75	nr	0	nr	0	nr	0
500	INC	-1241.88	0	-767.27	0	-2717.13	0	-2249.06	0	-140.75	0	85.27	85	nr	0	nr	0	-1226.26	0
502	INC	nr	25	57.14	57	93.67	94	-5.12	0	-59.17	0	nr	0	nr	0	nr	0	-2142.15	0
503	INC	-157.87	0	43.40	43	89.61	90	81.34	81	nr	0	nr	75	nr	0	nr	50	nr	75
504	INC	97.84	98	16.67	17	-106.12	0	46.56	47	-628.63	0	nr	0	nr	0	nr	0	nr	0
600	INC	nr	0	-100.00	0	nr	0	nr	50	-2746.99	0	nr	75	nr	0	nr	0	nr	0
700	INC	-793.38	0	65.40	65	99.69	100	88.65	89	-152.96	0	-1002.22	0	nr	0	nr	0	nr	0
701	INC	nr	0	65.22	65	nr	0	nr	75	-209.72	0	nr	0	-2497.40	0	nr	0	nr	50
702	INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr	0
703	INC	nr	75	-400.00	0	nr	0	nr	0	89.70	90	nr	0	-5235.72	0	-8580.92	0	nr	0
704	INC	nr	0	23.08	23	nr	0	nr	0	78.37	78	nr	50	nr	0	-2184.48	0	nr	0
705	INC	-212.04	0	43.74	44	52.88	53	32.84	33	-238.87	0	nr	0	nr	0	-3364.34	0	nr	75

TABLE C-4a. REQUIRED REDUCTION TO MEET OPTION 1A WITH 25% FEED REDUCTION

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
706	INC	nr	0	64.87	65	nr	0	nr	0	-6211.60	0	nr	75	-285.81	0	-151.49	0	-2387.56	0
707	INC	nr	0	62.86	63	nr	75	nr	0	-559.36	0	nr	0	nr	0	98.57	99	nr	0
708	INC	nr	0	39.80	40	nr	0	nr	50	-4479.16	0	nr	75	nr	0	-1047.43	0	nr	75
709	INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-1464.15	0	-1188.66	0	nr	0
710	INC	nr	0	45.78	46	nr	75	nr	0	63.05	63	99.10	99	-57.89	0	-240.91	0	nr	0
711	INC	nr	0	47.67	48	nr	0	nr	0	-3874.02	0	nr	75	nr	0	-591.02	0	nr	0
712	INC	nr	0	30.97	31	-3458.83	0	-241.79	0	nr	0	nr	0	nr	0	nr	0	nr	0
713	INC	nr	0	77.78	78	nr	50	nr	0	-27.56	0	nr	75	nr	0	-4897.31	0	nr	75
714	INC	nr	0	18.48	18	nr	75	nr	0	33.34	33	nr	0	nr	0	-490.50	0	nr	50
725	INC	-2381.79	0	24.62	25	-103.28	0	-69.64	0	-515.50	0	97.71	98	-1042.86	0	-2320.90	0	-140.38	0
726	INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	-36.95	0	-394.32	0	nr	0
727	INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	89.16	89	95.49	95	nr	0
728	INC	nr	0	65.04	65	nr	0	nr	0	-8462.93	0	nr	75	nr	0	nr	0	nr	75
784	INC	nr	0	63.41	63	nr	75	nr	50	96.31	96	nr	0	nr	0	-2646.55	0	nr	0
805	INC	nr	0	73.50	73	nr	0	nr	0	nr	50	73.72	74	-316.46	0	70.78	71	nr	75
806	INC	74.65	75	66.47	66	85.41	85	-1025.54	0	24.67	25	nr	75	-31.36	0	49.17	49	nr	0
807	INC	-250.14	0	39.43	39	54.90	55	53.04	53	-1536.67	0	-349.69	0	-795.81	0	-1762.35	0	-43.68	0
808	INC	nr	0	-38.32	0	nr	75	nr	50	-7885.28	0	nr	0	nr	0	-96.76	0	-224.68	0
809	INC	nr	0	nr	0	99.21	99	97.87	98	nr	0	nr	75	-354.42	0	91.87	92	nr	75
810	INC	nr	0	nr	0	94.52	95	86.54	87	nr	0	nr	0	nr	0	-543.78	0	nr	0
824	INC	-5524.77	0	-134.37	0	-67.55	0	29.62	30	-1320.46	0	nr	75	nr	0	-1074.27	0	nr	0
825	INC	nr	50	80.00	80	nr	0	nr	0	-1321.95	0	nr	0	nr	0	nr	75	nr	50
902	INC	14.29	14	28.23	28	-231.54	0	-725.08	0	-634.89	0	nr	0	-354.81	0	-153.83	0	-8069.93	0
904	INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	-159.94	0	-19763.85	0	nr	0
905	INC	nr	0	nr	0	99.70	100	56.79	57	nr	0	nr	0	nr	0	-172.96	0	nr	0
906	INC	nr	0	77.68	78	nr	25	nr	75	75.64	76	nr	50	-891.12	0	-1559.85	0	nr	75
914	INC	nr	0	-257.14	0	nr	0	nr	50	nr	25	91.71	92	nr	75	-2677.78	0	88.61	89
915	INC	nr	75	73.45	73	93.48	93	88.18	88	nr	0	nr	0	6.98	7	84.49	84	-17.65	0

TABLE C-4b. MODEL GROUP SELECTION FOR OPTION 1A WITH 25% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emission Reduction Required to the Meet Option 1A with 25% Feed Control									Model Group	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	THC	CO	D/F		
200	CK	FF	0	0	0	76	0	0	0	na	25	18	Add WQ + FF
201	CK	FF	0	0	0	73	0	0	0	na	50	21	Moderate DOM on FF + WQ
202	CK	FF	0	0	34	0	0	0	0	na	0	7	Moderate DOM on FF
203	CK	ESP	0	0	86	0	31	0	0	na	91	16	Add WQ + CI + FF + PT
204	CK	ESP	0	0	84	0	0	0	0	na	12	18	Add WQ + FF
205	CK	ESP	0	35	95	0	0	0	0	na	0	3	Add FF
206	CK	ESP	0	0	72	0	3	0	0	na	57	19	Add WQ + IWS
207	CK	MC/ESP	0	0	79	0	0	0	0	na	0	3	Add FF
208	CK	ESP	0	0	12	0	0	0	0	na	0	10	Small DOM on ESP
228	CK	ESP	0	0	75	0	0	0	0	na	0	3	Add FF
300	CK	ESP	0	58	96	0	0	0	0	na	96	5	Add WQ + CI + FF
301	CK	FF	0	24	0	0	0	0	0	na	75	4	Add CI + FF
302	CK	ESP	0	0	91	0	0	0	0	na	0	3	Add FF
303	CK	QC/FF	0	0	0	0	0	0	0	na	0	1	None
304	CK	ESP	0	49	88	0	0	0	0	na	72	5	Add WQ + CI + FF
305	CK	ESP	0	59	93	0	25	0	0	na	99	16	Add WQ + CI + FF + PT
306	CK	MC/FF	96	0	0	0	0	0	0	na	0	5	Add WQ + CI + FF
308	CK	ESP	0	0	16	0	0	0	0	na	75	22	Small DOM on ESP + WQ
309	CK	MC/ESP	0	0	87	0	0	0	0	na	99	5	Add WQ + CI + FF
315	CK	FF	0	0	0	0	0	0	0	na	50	17	Add WQ
316	CK	FF	0	0	0	0	0	0	0	na	0	1	None
317	CK	FF	0	0	0	0	0	0	0	na	60	5	Add WQ + CI + FF
318	CK	ESP	0	0	42	0	0	0	0	na	75	4	Add CI + FF
319	CK	ESP	0	20	88	0	0	87	0	na	91	19	Add WQ + IWS
320	CK	FF	0	0	0	0	0	38	0	na	0	9	Add PT
321	CK	ESP	0	71	0	0	0	49	0	na	75	8	Add CI + FF + PT
322	CK	ESP	0	0	49	0	0	0	0	na	81	20	Moderate DOM on ESP + WQ
323	CK	ESP	75	0	91	0	6	0	0	na	86	16	Add WQ + CI + FF + PT
335	CK	ESP	0	0	89	0	30	0	0	na	98	19	Add WQ + IWS
401	CK	ESP	0	42	92	6	0	0	0	na	0	3	Add FF
402	CK	ESP	0	44	98	13	0	63	0	na	75	8	Add CI + FF + PT
403	CK	ESP	84	13	0	0	0	0	0	na	53	5	Add WQ + CI + FF
404	CK	ESP	0	0	0	27	0	14	0	na	45	19	Add WQ + IWS
405	CK	ESP	0	0	92	68	0	0	0	na	50	4	Add FF + CI

TABLE C-4b. MODEL GROUP SELECTION FOR OPTION 1A WITH 25% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emission Reduction Required to the Meet Option 1A with 25% Feed Control									Model Group	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	THC	CO	D/F		
223	LWAK	FF	0	0	0	0	20	0	0	0	0	5	Add ST
224	LWAK	FF	0	0	0	0	0	0	0	0	0	1	None
225	LWAK	FF	0	0	0	0	0	0	0	0	0	1	None
226	LWAK	FF	0	0	0	0	0	0	0	0	0	1	None
227	LWAK	FF	0	0	0	0	0	0	0	0	0	1	None
307	LWAK	FF/VS	93	0	0	0	0	0	0	0	0	3	Add CI + FF
310	LWAK	FF	0	6	76	0	0	0	0	0	0	2	Add FF
311	LWAK	FF	0	0	82	0	0	55	0	0	0	6	Add IWS
312	LWAK	FF	0	0	81	0	0	59	0	0	0	6	Add IWS
313	LWAK	FF	0	0	82	73	0	0	0	0	0	2	Add FF
314	LWAK	FF	0	42	95	61	0	0	0	0	0	2	Add FF
336	LWAK	FF	0	0	75	0	0	0	0	0	0	2	Add FF

TABLE C-4b. MODEL GROUP SELECTION FOR OPTION 1A WITH 25% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emission Reduction Required to the Meet Option 1A with 25% Feed Control									Model Group	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	THC	CO	D/F		
209	INC	WHB/FF/VQ/PT/DM	0	0	0	0	0	94	25	63	75	35	Moderate DOM on combustor + Add WQ + PT
210	INC	FF/S	25	0	50	75	1	0	0	0	0	3	Moderate DOM on WS + Add RH + CI + FF
211	INC	SS/PT/VS	0	0	75	50	0	84	0	0	0	4	Add IWS
212	INC	FF/S	0	36	0	0	62	0	0	0	0	7	Moderate DOM on FF and WS
214	INC	IWS	80	35	89	47	0	25	0	0	0	29	Small DOM on IWS + Add RH + CI + FF
216	INC	HES/WS	0	50	90	39	0	0	0	0	0	6	Add FF
221	INC	PT	0	0	0	0	0	78	0	0	0	2	Add PT
222	INC	WHB/SD/ESP/Q/PBS	50	0	0	0	0	0	0	0	57	8	Add CI
229	INC	WHB/ACS/HCS/CS	0	21	0	0	62	75	0	75	91	43	Add AB + RH + CB + IWS
324	INC	?	0	0	88	28	68	0	0	0	0	4	Add IWS
325	INC	SD/FF/WS/IWS	0	0	10	0	0	75	0	0	0	11	Moderate DOM on FF + Add PT
327	INC	SD/FF/WS/ESP	95	0	0	0	0	0	0	0	97	8	Add CI
329	INC	PT/IWS	75	51	75	75	0	0	0	0	50	9	Add RH + CI + FF
330	INC	QT/WS/DM	0	64	76	0	34	0	0	0	98	3	Moderate DOM on WS + Add RH + CI + FF
331	INC	PT/IWS	12	0	98	0	75	75	0	0	0	13	Add RH + CI + FF + PT
332	INC	WS	0	87	0	0	13	93	0	80	75	48	Add AB + WQ + CI + FF + PT
333	INC	SD/FF	0	0	0	50	42	0	0	0	0	14	Moderate DOM on SD and FF
334	INC	WS/ESP/PT	0	73	98	84	0	0	0	0	74	10	Add WQ + CI + FF
337	INC	WHB/DA/DI/FF	76	0	3	64	0	73	0	0	0	15	Moderate DOM on FF + Add CI + PT
338	INC	QC/FF/SS/C/HES/DM	34	0	0	0	0	0	0	0	0	8	Add CI
339	INC	AT/PT/RJS/ESP	75	0	25	0	0	0	0	0	0	28	Moderate DOM on ESP + Add RH + CB
340	INC	WHB/ESP/WS	0	0	0	0	0	50	0	0	0	30	Moderate DOM on WS
341	INC	DA/DI/FF/HEPA/CA	0	0	0	0	0	0	0	0	0	1	None
342	INC	WHB/QC/S/VS/DM	0	0	0	0	0	75	0	0	0	2	Add PT
344	INC	QC/VS/PT/DM	25	0	0	0	0	0	0	0	0	9	Add RH + CI + FF
346	INC	C/QC/VS/PT/DM	0	0	11	0	0	75	0	0	0	16	Moderate DOM on VS + Add PT
347	INC	C/QC/VS/S/DM	0	0	0	0	0	0	0	0	0	1	None
348	INC	QC/AS/IWS	75	0	0	0	0	0	0	0	75	32	Add RH + CB
349	INC	QC/FF/QC/PT	0	0	0	75	50	75	0	0	0	4	Add IWS
350	INC	WHB/HE/FF	0	0	75	50	0	0	0	0	0	6	Add FF
351	INC	GC/C/FF	0	0	0	0	0	50	0	0	50	34	Add CI + PT
353	INC	QC/VS/DM/ESP	0	31	20	33	0	0	0	0	0	17	Moderate DOM on ESP
354	INC	QC/AS/VS/DM/IWS	0	0	0	0	0	0	0	0	0	1	None
356	INC	QC/AS/FN/DM	0	52	0	0	0	75	0	0	0	4	Add IWS
357	INC	QC/VS/PT/IWS	0	39	75	0	0	0	0	0	0	6	Add FF
358	INC	QC/VS/C/CT/S/DM	0	53	50	0	0	75	0	0	0	16	Moderate DOM on VS + Add PT
359	INC	WHB/FF/S	75	20	85	100	0	0	0	0	0	49	Add CI + FF
400	INC	SD/FF	0	0	89	28	0	75	0	0	0	4	Add IWS
500	INC	QC/VS/KOV/DM	0	0	0	0	0	85	0	0	0	2	Add PT
502	INC	WHB/QC/PBC/VS/ES	25	57	94	0	0	0	0	0	0	9	Add RH + CI + FF
503	INC	HTHE/LTHE/FF	0	43	90	81	0	75	0	50	75	38	Moderate DOM on combustor + CI + IWS
504	INC	VS/C	98	17	0	47	0	0	0	0	0	9	Add RH + CI + FF
600	INC	WHB/QC/PT/IWS	0	0	0	50	0	75	0	0	0	4	Add IWS
700	INC	SD/RJS/VS/WS	0	65	100	89	0	0	0	0	0	6	Add FF
701	INC	VS/PT	0	65	0	75	0	0	0	0	50	9	Add RH + CI + FF
702	INC	QT/S/C	0	82	75	0	0	75	0	0	0	4	Add IWS
703	INC	WHB	75	0	0	0	90	0	0	0	0	20	Add WQ + CB + PT
704	INC	NONE	0	23	0	0	78	50	0	0	0	4	Add IWS

TABLE C-4b. MODEL GROUP SELECTION FOR OPTION 1A WITH 25% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emission Reduction Required to the Meet Option 1A with 25% Feed Control									Model Group	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	THC	CO	D/F		
705	INC	QT/VS/ESP/PT	0	44	53	33	0	0	0	0	75	49	Add CI + FF
706	INC	QT/HS/C	0	65	0	0	0	75	0	0	0	16	Moderate DOM on VS + Add PT
707	INC	QT/WS	0	63	75	0	0	0	0	99	0	21	Add AB + FF
708	INC	WS/ESP	0	40	0	50	0	75	0	0	75	45	Add CI + FF + PT
709	INC	NONE	50	63	0	0	0	0	0	0	0	10	Add WQ + CI + FF
710	INC	QT/OS/C/S	0	46	75	0	63	99	0	0	0	4	Add IWS
711	INC	C/VS/AS	0	48	0	0	0	75	0	0	0	16	Moderate DOM on VS + Add PT
712	INC	NONE	0	31	0	0	0	0	0	0	0	6	Add FF
713	INC	VS/PT	0	78	50	0	0	75	0	0	75	41	Add WQ + CI + FF + PT
714	INC	WS	0	18	75	0	33	0	0	0	50	3	Moderate DOM on WS + Add RH + CI + FF
725	INC	WS/QT	0	25	0	0	0	98	0	0	0	4	Add IWS
726	INC	QC/CS/DM/VS	75	0	75	75	0	75	0	0	0	13	Add RH + CI + FF + PT
727	INC	GC/C/FF	0	82	75	50	0	0	89	95	0	21	Add AB + FF
728	INC	QT/PT/VS	0	65	0	0	0	75	0	0	75	37	Moderate DOM on VS + Add RH + CB + PT
784	INC	NONE	0	63	75	50	96	0	0	0	0	4	Add IWS
805	INC	QT/QS/VS/ES/PBS	0	73	0	0	50	74	0	71	75	51	Moderate DOM on VS and PT and combustor + RH + CB
806	INC	C/VS	75	66	85	0	25	75	0	49	0	24	Moderate DOM on combustor + Add RH + CI + FF + PT
807	INC	C/WHB/VQ/PT/HS/DM	0	39	55	53	0	0	0	0	0	19	Moderate DOM on VS
808	INC	QT/PBS/ESP	0	0	75	50	0	0	0	0	0	6	Add FF
809	INC	VS	0	0	99	98	0	75	0	92	75	48	Add AB + WQ + CI + FF + PT
810	INC	Q/VS/PBS	0	0	95	87	0	0	0	0	0	6	Add FF
824	INC	QT/VS/PT/DM	0	0	0	30	0	75	0	0	0	16	Moderate DOM on VS + Add PT
825	INC	CCS/QC/ESP	50	80	0	0	0	0	0	75	50	25	Add AB + RH + CI + FF
902	INC	QT/VS/PT	14	28	0	0	0	0	0	0	0	9	Add RH + CI + FF
904	INC	?	0	0	75	0	0	0	0	0	0	6	Add FF
905	INC	QT/VS/AS/CS	0	0	100	57	0	0	0	0	0	6	Add FF
906	INC	QT/PT	0	78	25	75	76	50	0	0	75	13	Add RH + CI + FF + PT
914	INC	?	0	0	0	50	25	92	75	0	89	48	Add AB + WQ + CI + FF + PT
915	INC	QC/VS/C	75	73	93	88	0	0	7	84	0	25	Add AB + RH + CI + FF

TABLE C-4c. CHARACTERIZATION OF ATF MODEL PLANTS, OPTION 1A, 25%FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
CK	Group 1	None	1	303	L	Lone Star	MC/FF	408,681	370,000	
			1	316	L	Southdown	FF	nr	370,000	
	Group 3	Add FF	1	207	S	Keystone	MC/ESP	90,681	147,000	
			1	228 *	S	Ash Grove	ESP	148,537	147,000	
			2	302	S	Lafarge	ESP	130,576	147,000	
			1	401	S	Ash Grove	ESP	172,481	147,000	
			1	205	L	Holnam	ESP	253,556	370,000	
	Group 4	Add CI + FF	1	301 *	S	Essroc	FF	185,409	147,000	
			4	318 *	S	Texas Industries	ESP	152,675	147,000	
			1	405 *	S	Ash Grove	ESP	194,905	147,000	
	Group 5	Add CI + FF + WQ	2	300	S	Essroc	ESP	164,692	147,000	
			1	403	S	Ash Grove	ESP	184,877	147,000	
			1	304	L	Lone Star	ESP	300,367	370,000	
			1	306	L	National	MC/FF	280,868	370,000	
			1	309	L	River Cement	MC/ESP	665,839	370,000	
			1	317	L	Southdown	FF	422,190	370,000	
	Group 7	Moderate DOM on FF	1	202	L	Heartland	FF	221,421	370,000	
	Group 8	Add CI + FF + PT	1	321 *	S	Lafarge	ESP	59,542	147,000	85
			1	402 *	S	Ash Grove	ESP	187,605	147,000	85
	Group 9	Add PT	3	320	L	Lafarge	FF	nr	370,000	85
	Group 10	Small DOM on ESP	1	208	L	Keystone	ESP	307,644	370,000	
	Group 16	Add CI + FF + PT + WQ	2	305	S	Medusa	ESP	196,903	147,000	85
			1	323	S	Lafarge	FF	185,409	147,000	85
			1	203	L	Holnam	ESP	291,645	370,000	85
	Group 17	Add WQ	1	315 *	S	Southdown	FF	102,042	147,000	
	Group 18	Add FF + WQ	2	200 *	S	Giant	FF	123,584	147,000	
			1	204	L	Holnam	ESP	693,613	370,000	
	Group 19	Add IWS + WQ	1	335	S	Medusa	ESP	100,378	147,000	85
			1	206	L	Holnam	ESP	348,510	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
			1	404	L	Ash Grove	ESP	265,721	370,000	85
	Group 20	Moderate DOM on ESP + WQ	1	322	S	Lafarge	ESP	112,269	147,000	
	Group 21	Moderate DOM on FF + WQ	2	201 *	S	Giant	FF	137,945	147,000	
	Group 22	Small DOM on ESP + WQ	3	308 *	S	North Texas	ESP	162,599	147,000	
LWAK	Group 1	None	1	227	M	Solite	FF	38,796	40,500	
			1	224	M	Solite	FF	39,049	40,500	
			1	225	M	Solite	FF	38,270	40,500	
			1	226	M	Solite	FF	nr	40,500	
	Group 2	Add FF	1	313	M	Solite	FF	36,793	40,500	
			1	310	M	Solite	FF	47,770	40,500	

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
			1	314	M	Solite	FF	36,793	40,500	
			1	336 *	M	Solite	FF	30,336	40,500	
	Group 3	Add CI + FF	2	307	M	Norlite	FF/VS	49,050	40,500	
	Group 5	Add ST	1	223	M (hi HCl)	Solite	FF	29,092	40,500	1,570
	Group 6	Add IWS	1	311	M (hi HCl)	Solite	FF	51,627	40,500	1,570
			1	312	M (hi HCl)	Solite	FF	47,698	40,500	1,570
INC	Group 1	None	1	341	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
			1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
	Group 2	Add PT	1	342 *	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92
			1	221	L	Rollins	PT	51,114	60,800	92
			1	500	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92
	Group 3	Moderate DOM on WS + Add CI + FF + RH	1	330	M	General Electric	QT/WS/DM	10,345	22,100	
			2	714 *	M	Olin Chemical	WS	19,185	22,100	
			1	210 *	L	LWD	FF/S	96,107	60,800	
	Group 4	Add IWS	2	349 *	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
			1	356 *	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	704	S	Ashland	NONE	5,011	3,900	92
			1	725 *	S	Zeneca	WS/QT	1,489	3,900	92
			1	784 *	S	Cook Composites	NONE	nr	3,900	92
			1	324	M	Allied	?	12,120	22,100	92
			1	702 *	M	Dupont	QT/S/C	nr	22,100	92
			1	710	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	211 *	L	LWD	SS/PT/VS	43,596	60,800	92
			1	400 *	L	Marine Shale	SD/FF	179,333	60,800	92
			1	600 *	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
	Group 6	Add FF	1	904 *	S	First Chemical	?	5,950	3,900	
			1	905	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	350 *	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	357 *	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
INC (cont.)			1	808 *	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
			1	810	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
			1	216	L	Rollins	HES/WS	40,002	60,800	
			1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	Moderate DOM on FF and WS	1	212	L	LWD	FF/S	44,610	60,800	
	Group 8	Add CI	1	222	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
			1	327	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
			1	338	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add CB + FF + RH	1	502 *	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	
			1	344 *	M	Department of Army	QC/VS/PT/DM	13,886	22,100	

TABLE C-4c. CHARACTERIZATION OF ATF MODEL PLANTS, OPTION 1A, 25%FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	329 *	L	Dupont	PT/IWS	53,489	60,800	
	Group 10	Add CI + FF + WQ	1	709 *	S	Cargill Chemical	NONE	3.123	3.900	
			1	701 *	M	Eli Lilly	VS/PT	9,208	22,100	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	
	Group 11	Moderate DOM on FF + Add PT	1	325 *	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92
	Group 13	Add CI + FF + PT + RH	1	726 *	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	906 *	S	Monsanto	QT/PT	2,738	3,900	92
			1	331 *	L	Ross	PT/IWS	44,379	60,800	92
	Group 14	Moderate DOM on SD and FF	1	333 *	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	Moderate DOM on FF + Add CI + PT	2	337	M	Olin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 16	Moderate DOM on VS + Add PT	1	824 *	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92
			1	346 *	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92
			1	358 *	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	706 *	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
			1	711 *	L	Chevron Chemical	C/VS/AS	52,907	60,800	92
	Group 17	Moderate DOM on ESP	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
	Group 19	Moderate DOM on VS	1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
	Group 20	Add CB + PT + WQ	1	703 *	S	Aristech	WHB	1,873	3,900	92
	Group 21	Add AB + FF	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
			1	707	L	Dupont	QT/WS	58,120	60,800	
INC	Group 24	Moderate DOM on combustor + Add CI + FF + PT + RH	1	806 *	M	Amoco Oil	C/VS	20,641	22,100	92
(cont.)	Group 25	Add AB + CI + FF + RH	1	825 *	M	General Electric	CCS/QC/ESP	21,363	22,100	
			1	915 *	M	Eastman Kodak	QC/VS/C	nr	22,100	
	Group 28	Moderate DOM on ESP + Add CB + RH	1	339 *	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
	Group 29	Small DOM on IWS + Add CI + FF + RH	1	214 *	M	Rollins	IWS	34,655	22,100	
	Group 30	Moderate DOM on WS	1	340 *	M	Miles	WHB/ESP/WS	16,003	22,100	92
	Group 32	Add CB + RH	1	348 *	S	Occidental Chemical	QC/AS/IWS	nr	3,900	
	Group 34	Add CI + PT	1	351 *	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
	Group 35	Moderate DOM on combustor + Add + PT + WQ	1	209 *	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 37	Moderate DOM on VS + Add CB + PT + RH	1	728 *	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
	Group 38	Moderate DOM on combustor + CI + IWS	1	503 *	S	Lake City Army Ammo Plant	HTHE/LTHE/FF	4,747	3,900	92
	Group 41	Add CI + FF + PT + WQ	1	713 *	S	Pfizer	VS/PT	2,625	3,900	92
	Group 43	Add AB + CB + IWS + RH	1	229 *	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92

TABLE C-4c. CHARACTERIZATION OF ATF MODEL PLANTS, OPTION 1A, 25%FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
	Group 45	Add CI + FF + PT	1	708 *	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
	Group 48	Add AB + CI + FF + PT + WQ	1	332 *	M	Thermalkem	WS	20,208	22,100	92
			1	914 *	M	Vertac Superfund	?	25,849	22,100	92
			1	809 *	L	Tennessee Eastman	VS	40,524	60,800	92
	Group 49	Add CI + FF	1	359 *	M	Atochem	WHB/FF/S	13,802	22,100	
			1	705 *	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	
	Group 51	Moderate DOM on VS and PT and combustor + CB + RH	1	805 *	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	92

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribution of reported values from other facilities.

** Reported Ratio is equal to the number of total units located at a site divided by the number of units for which information was reported.
Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units.

nr = not reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 1	L	None	2	$0K	$0K	$0K
	Group 3	S	Add FF	5	$2,141K	$355K	$596K
		L		1	$5,072K	$754K	$1,325K
	Group 4	S	Add CI,FF	6	$2,611K	$718K	$1,022K
	Group 5	S	Add Q,CI,FF	3	$3,144K	$806K	$1,180K
		L		4	$6,570K	$1,645K	$2,414K
	Group 7	L	DOM FF mod	1	$315K	$104K	$115K
	Group 8	S	Add CI,FF,PT	2	$3,512K	$1,048K	$1,498K
	Group 9	L	Add PT	3	$1,934K	$684K	$999K
	Group 10	L	DOM ESP small	1	$912K	$155K	$275K
	Group 16	S	Add Q, CI, FF, PT	3	$4,045K	$1,136K	$1,656K
		L		1	$8,505K	$2,329K	$3,413K
	Group 17	S	Add Q	1	$533K	$88K	$158K
	Group 18	S	Add Q, FF	2	$2,673K	$443K	$754K
		L		1	$5,984K	$909K	$1,601K
	Group 19	S	Add Q, IWS	1	$2,923K	$467K	$926K
		L		3	$5,322K	$902K	$1,740K
	Group 20	S	Moderate DOM on existing ESP, Add Q	1	$2,290K	$237K	$538K
	Group 21	S	Moderate DOM on existing FF, Add Q	2	$658K	$129K	$203K
	Group 22	S	Small DOM on existing ESP, Add Q	3	$1,065K	$176K	$316K
LWAKS	Group 1	M	None	4	$0K	$0K	$0K
	Group 2	M	Add FF	4	$661K	$161K	$236K
	Group 3	M	Add CI, FF	2	$1,074K	$350K	$480K
	Group 5	M (hi HCl)	Add ST	1	$1,229K	$330K	$530K
	Group 6	M (hi HCl)	Add IWS	2	$1,016K	$682K	$847K
Incinerators	Group 1	M	None	3	$0K	$0K	$0K
	Group 2	S	Add PT	1	$57K	$90K	$99K
		L		2	$445K	$195K	$267K
	Group 3	M	DOM WS mod, Add RH,CI/CB,FF	3	$1,004K	$405K	$541K
		L		1	$1,876K	$712K	$968K
	Group 4	S	Add IWS	6	$215K	$97K	$132K
		M		3	$680K	$144K	$254K
		L		3	$1,331K	$228K	$445K
	Group 6	S	Add FF	2	$82K	$89K	$98K
		M		5	$295K	$121K	$154K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators		L		2	$943K	$198K	$305K
(cont)	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
	Group 8	L	Add CI/CB	3	$425K	$224K	$280K
	Group 9	S	Add RH, CI/CB, FF	1	$575K	$241K	$315K
		M		3	$932K	$391K	$508K
		L		1	$1,681K	$672K	$876K
	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
		M		1	$970K	$316K	$438K
		L		1	$1,735K	$483K	$694K
	Group 11	M	DOM FF mod, Add PT	1	$223K	$130K	$164K
	Group 13	S	Add PT, RH, CI/CB, FF	2	$632K	$331K	$414K
		L		1	$2,126K	$866K	$1,143K
	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	2	$620K	$278K	$364K
	Group 16	S	DOM VS mod, Add PT	1	$68K	$96K	$109K
		M		3	$250K	$159K	$205K
		L		1	$550K	$291K	$394K
	Group 17	M	DOM ESP mod	1	$535K	$50K	$120K
	Group 19	M	DOM VS mod	1	$46K	$35K	$47K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K
	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
		L		1	$1,486K	$1,473K	$1,651K
	Group 24	M	DOM combustor, Add PT,RH,CI/CB,FF	1	$1,291K	$515K	$690K
	Group 25	M	Add AB,RH,CI/CB,FF	2	$1,349K	$924K	$1,096K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$178K	$267K
	Group 29	M	DOM IWS small, Add RH,CI/CB,FF	1	$972K	$403K	$528K
	Group 30	M	Moderate DOM on existing WS	1	$71K	$15K	$33K
	Group 32	S	Add RH, CB/CI	1	$493K	$152K	$216K
	Group 34	S	Add CI/CB, PT	1	$398K	$181K	$235K
	Group 35	M	Moderate DOM on Combustor, Add Q, PT	1	$637K	$172K	$267K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators	Group 37	S	Moderate DOM on existng VS, Add RH, CI/CB, PT	1	$561K	$248K	$326K
(cont)	Group 38	S	Moderate DOM on Combustor, Add CI/CB, IWS	1	$672K	$188K	$287K
	Group 41	S	Add Q, CI/CB, FF, PT	1	$700K	$311K	$403K
	Group 43	S	Add RH, CI/CB, IWS, AB	1	$973K	$441K	$576K
	Group 45	S	Add CI/CB, FF, PT	1	$479K	$270K	$334K
	Group 48	M	Add AB, Q, CI/CB, FF, PT	2	$1,592K	$974K	$1,184K
		L		1	$2,723K	$1,953K	$2,308K
	Group 49	M	Add CI/CB, FF	2	$692K	$268K	$354K
	Group 51	M	Moderate DOM on existing WS, VS, Combustor, Add RH, CI/CB	1	$908K	$320K	$459K

TABLE C-5a. REQUIRED REDUCTION TO MEET OPTION 1B WITH 0% FEED REDUCTION

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
Floor Levels		30.00		0.03		60.00		80.00		60.00		1.00		20.00		na		0.20	
200	CK	-297.44	0	-118.49	0	-11.18	0	75.85	76	-365.89	0	-12896.09	0	nr	50	na	na	nr	25
201	CK	-1407.99	0	-130.41	0	-50.56	0	73.25	73	-298.50	0	-24771.29	0	nr	0	na	na	nr	75
202	CK	-94.60	0	-25.37	0	33.56	34	-215.07	0	-374.52	0	-385.88	0	nr	25	na	na	nr	0
203	CK	-569.70	0	-119.51	0	86.27	86	-236.48	0	30.76	31	-70.10	0	-5.26	0	na	na	96.43	96
204	CK	-129.25	0	0.26	0	84.04	84	-1362.77	0	-130000.40	0	-12137.22	0	nr	0	na	na	64.91	65
205	CK	-35.43	0	35.22	35	94.73	95	-366.92	0	-397.63	0	-532.00	0	10.95	11	na	na	-103.05	0
206	CK	-145.96	0	-25.08	0	72.13	72	-984.03	0	3.33	3	-3047.41	0	-65.62	0	na	na	82.61	83
207	CK	-139.37	0	-31.99	0	79.05	79	-381.13	0	-1689.68	0	-341.44	0	nr	0	na	na	-1150.00	0
208	CK	-94.07	0	-108.75	0	12.33	12	-677.54	0	-1861.54	0	-455.75	0	nr	0	na	na	-4238.39	0
228	CK	nr	25	nr	0	nr	75	nr	0	nr	0	nr	0	-18.34	0	na	na	2.44	0
300	CK	nr	0	58.04	58	96.03	96	-6.02	0	-133.28	0	-342.19	0	-4.58	0	na	na	98.33	98
301	CK	65.46	65	23.80	24	-730.24	0	-453.52	0	-35034.62	0	-630.73	0	-65.70	0	na	na	nr	75
302	CK	nr	50	-44.64	0	91.40	91	-355.66	0	-700.48	0	-176.54	0	nr	0	na	na	nr	75
303	CK	-37.41	0	-30.43	0	-199.20	0	-682.96	0	-1955.87	0	-1210.34	0	66.67	67	na	na	nr	0
304	CK	11.56	12	48.89	49	87.73	88	-130.78	0	-22535.67	0	-30004.93	0	nr	0	na	na	88.89	89
305	CK	-272.38	0	58.80	59	92.98	93	-212.74	0	25.45	25	-430.90	0	10.42	10	na	na	99.65	99
306	CK	98.85	99	-99.06	0	-367.57	0	-601.90	0	-3633.80	0	-669.23	0	nr	0	na	na	-266.30	0
308	CK	nr	0	-36.36	0	15.76	16	-1139.78	0	-1621.71	0	-68.87	0	nr	25	na	na	nr	75
309	CK	-3.62	0	-25.78	0	87.03	87	-1843.95	0	-64.30	0	-1060.80	0	-32.45	0	na	na	99.62	99
315	CK	nr	0	-2740.15	0	-413.88	0	-730.10	0	-3762.94	0	-5273.91	0	nr	50	na	na	nr	75
316	CK	nr	50	-154.44	0	-1240.79	0	-1238.86	0	-196.56	0	-43.33	0	-233.33	0	na	na	nr	75
317	CK	nr	0	-1230.87	0	-162.65	0	-296.42	0	-1653.41	0	-2574.16	0	64.17	64	na	na	83.87	84
318	CK	nr	0	-225.02	0	41.59	42	-401.89	0	-63.11	0	-1460.26	0	-207.69	0	na	na	nr	75
319	CK	27.68	28	20.00	20	87.88	88	-46.20	0	-30.38	0	87.33	87	68.94	69	na	na	96.42	96
320	CK	nr	0	-899.98	0	-3311.75	0	-2000.16	0	-2653.29	0	37.65	38	80.10	80	na	na	-136.97	0
321	CK	nr	50	71.43	71	-1038.05	0	-1518.62	0	-1645.51	0	49.40	49	nr	50	na	na	nr	0
322	CK	nr	0	-130.76	0	49.25	49	-258.34	0	-260.41	0	-534.67	0	-170.27	0	na	na	92.54	93
323	CK	nr	75	-7.14	0	91.25	91	-15.59	0	6.12	6	-1427.98	0	-90.48	0	na	na	94.44	94
335	CK	0.72	1	-48.08	0	89.12	89	-767.16	0	29.91	30	-221.34	0	-12.55	0	na	na	99.20	99
401	CK	33.99	34	42.41	42	91.62	92	6.01	6	-261.48	0	-128.90	0	61.33	61	na	na	48.72	49
402	CK	-24.45	0	43.93	44	97.77	98	12.79	13	-451.10	0	62.93	63	33.05	33	na	na	nr	0
403	CK	95.40	95	13.39	13	-152.84	0	-182.29	0	-13145.69	0	-5893.12	0	-13.19	0	na	na	81.31	81
404	CK	-840.56	0	-528.18	0	-36.09	0	27.44	27	-10.95	0	14.22	14	-25.96	0	na	na	77.88	78
405	CK	-98.12	0	-36.56	0	92.04	92	67.60	68	-3224.52	0	-253.98	0	6.65	7	na	na	nr	50

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
Floor Levels		30.00		0.015		60.00		80.00		1300.00		2.50		20.00		100.00		0.20	
223	LWAK	-7.48	0	-479.94	0	-1304.10	0	-124.69	0	19.94	20	-431.63	0	nr	0	nr	0	nr	0
224	LWAK	-132.64	0	-427.20	0	-1893.38	0	-331.05	0	-179818.36	0	-669.78	0	nr	0	nr	75	nr	0
225	LWAK	-611.87	0	-4045.81	0	-8044.14	0	-692.88	0	-187.02	0	-2277.15	0	nr	0	nr	0	nr	0
226	LWAK	nr	0	-1385.13	0	nr	0	nr	0	nr	0	nr	0	nr	0	nr	75	nr	0
227	LWAK	-99.44	0	-926.73	0	-287.87	0	-297.03	0	-13.96	0	-674.17	0	-60.00	0	92.51	93	nr	0
307	LWAK	93.22	93	-38.09	0	-1282.19	0	-25.21	0	-7777.68	0	-465.77	0	nr	0	-120.61	0	nr	0
310	LWAK	-140.88	0	6.25	6	76.47	76	-33.99	0	-44.98	0	-51.18	0	nr	0	nr	0	nr	0
311	LWAK	-120.44	0	-150.00	0	82.22	82	-121.23	0	-41.49	0	54.85	55	nr	0	nr	75	nr	0
312	LWAK	-295.26	0	-114.28	0	81.33	81	-126.36	0	-34.10	0	58.97	59	nr	0	nr	0	nr	0
313	LWAK	-8885.09	0	-150.00	0	82.36	82	72.82	73	-13.09	0	-438.64	0	nr	0	nr	75	nr	0
314	LWAK	-32.20	0	42.18	42	95.20	95	60.57	61	-111.03	0	-71.55	0	nr	0	nr	0	nr	0
336	LWAK	nr	0	-84.34	0	nr	75	nr	0	nr	0	nr	0	nr	0	nr	75	-418.13	0

TABLE C-5a. REQUIRED REDUCTION TO MEET OPTION 1B WITH 0% FEED REDUCTION

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
Floor Levels		30.00		0.015		60.00		80.00		25.00		1.00		20.00		100.00		0.20	0
209	INC	-1148.23	0	-223.01	0	-901.19	0	-254.98	0	-213.86	0	93.77	94	nr	25	63.16	63	nr	75
210	INC	nr	75	-192.21	0	nr	50	nr	75	0.74	1	-323.19	0	-415.91	0	-27385.21	0	nr	25
211	INC	nr	0	-44.23	0	nr	75	nr	50	-43.80	0	83.61	84	-760.67	0	-2002.04	0	nr	0
212	INC	nr	0	36.13	36	nr	0	nr	0	61.68	62	-689.04	0	-478.16	0	-1934.62	0	nr	0
214	INC	79.84	80	35.45	35	89.14	89	47.30	47	-2225.59	0	nr	25	-1521.60	0	-561.99	0	-237.84	0
216	INC	-93.36	0	50.15	50	89.87	90	38.76	39	-254.00	0	nr	0	nr	0	-869.84	0	nr	0
221	INC	-378.09	0	-5.42	0	-95.30	0	-31.44	0	-172.95	0	78.17	78	-464.12	0	-552.36	0	52.38	52
222	INC	nr	50	-597.56	0	-2747.28	0	nr	0	-2256.19	0	-256.01	0	-6003.91	0	-167.49	0	82.76	83
229	INC	nr	0	21.26	21	-76.35	0	-33.89	0	61.77	62	nr	75	nr	0	nr	75	96.38	96
324	INC	nr	0	-38.89	0	87.59	88	27.68	28	67.66	68	nr	0	nr	0	-219.83	0	nr	75
325	INC	-38.37	0	-361.53	0	9.60	10	-152.27	0	-523.38	0	nr	75	-2263.92	0	-867.74	0	nr	0
327	INC	95.37	95	-1094.70	0	-289.48	0	-200.94	0	-927.02	0	-638.11	0	-284.23	0	-1096.05	0	98.75	99
329	INC	nr	75	50.74	51	nr	75	nr	75	-374.75	0	-274.78	0	-708.58	0	-935.58	0	nr	50
330	INC	-667.30	0	64.37	64	76.47	76	-49.79	0	34.29	34	nr	0	nr	0	nr	0	99.25	99
331	INC	11.85	12	-87.50	0	97.84	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-191.97	0
332	INC	nr	0	87.30	87	nr	0	nr	0	13.13	13	93.04	93	nr	0	80.00	80	nr	75
333	INC	nr	0	-1053.82	0	nr	0	nr	50	42.40	42	-135.54	0	nr	0	-2136.89	0	nr	0
334	INC	-568.65	0	72.94	73	98.24	98	84.07	84	-109.38	0	nr	0	-885.83	0	-34.96	0	89.47	89
337	INC	75.56	76	-6247.01	0	2.90	3	64.19	64	-9471.38	0	73.40	73	-514.48	0	-13061.51	0	nr	0
338	INC	33.95	34	-1099.99	0	-169.74	0	-5.63	0	-22288.80	0	-2617.49	0	-994.39	0	-4878.93	0	nr	0
339	INC	nr	75	-414.21	0	nr	50	nr	0	-91.67	0	-9966.49	0	-1513.97	0	nr	0	nr	0
340	INC	-288.20	0	-130.06	0	-817.42	0	-597.04	0	-99.81	0	nr	75	-1138.46	0	-238.04	0	nr	75
341	INC	-4187.18	0	-916.94	0	-478.44	0	-944.00	0	-2160.14	0	nr	0	nr	0	-73.46	0	nr	50
342	INC	-496.67	0	-316.97	0	-313.76	0	-3408.50	0	-15877.71	0	nr	75	nr	0	nr	0	nr	0
344	INC	nr	50	-826.62	0	-395.71	0	-16.98	0	-3569.67	0	nr	0	-1015.00	0	-519.62	0	nr	25
346	INC	-14284.42	0	-1067.30	0	11.30	11	-553.14	0	-4344.22	0	nr	75	nr	0	-255.68	0	-63.93	0
347	INC	-674.41	0	-115.39	0	-658.24	0	-443.92	0	-2138.44	0	nr	0	nr	0	nr	0	-936.27	0
348	INC	nr	75	-1399.99	0	-824.71	0	-2435.15	0	-59821.89	0	-167.39	0	nr	0	-1104.17	0	nr	75
349	INC	nr	0	-690.51	0	-114.45	0	nr	75	nr	50	nr	75	nr	0	-1053.22	0	nr	0
350	INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-2870.43	0	nr	0
351	INC	nr	0	-68.16	0	nr	0	-645.40	0	nr	0	nr	75	nr	0	-35.23	0	nr	50
353	INC	-890.94	0	30.81	31	20.30	20	32.99	33	nr	0	nr	0	nr	0	-529.10	0	-57.48	0
354	INC	-4687.46	0	-141.54	0	-3272.96	0	-684.78	0	-5572.48	0	-14.29	0	nr	0	-3281.50	0	-2624.80	0
356	INC	nr	0	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	0	-2601.64	0	nr	75
357	INC	nr	0	38.53	39	nr	75	nr	0	-390.75	0	nr	0	nr	0	-808.60	0	nr	0
358	INC	nr	0	52.79	53	nr	50	nr	0	-1005.24	0	nr	75	nr	0	-6563.08	0	nr	0
359	INC	nr	75	19.91	20	84.57	85	99.85	100	-315.01	0	nr	0	nr	0	-0.58	0	nr	0
400	INC	-149.13	0	-152.37	0	89.32	89	27.87	28	nr	0	nr	75	nr	0	nr	0	nr	50
500	INC	-1241.88	0	-767.27	0	-2717.13	0	-2249.06	0	-140.75	0	85.27	85	nr	0	nr	0	-430.50	0
502	INC	nr	50	57.14	57	93.67	94	-5.12	0	-59.17	0	nr	0	nr	0	nr	0	-796.86	0
503	INC	-157.87	0	43.40	43	89.61	90	81.34	81	nr	0	nr	75	nr	0	nr	50	nr	75
504	INC	97.84	98	16.67	17	-106.12	0	46.56	47	-628.63	0	nr	0	nr	0	nr	0	nr	0
600	INC	nr	0	-100.00	0	nr	0	nr	50	-2746.99	0	nr	75	nr	0	nr	0	nr	0
700	INC	-793.38	0	65.40	65	99.69	100	88.65	89	-152.96	0	-1002.22	0	nr	0	nr	0	nr	0
701	INC	nr	0	65.22	65	nr	0	nr	75	-209.72	0	nr	0	-2497.40	0	nr	0	nr	50
702	INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr	75

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
703	INC	nr	75	-400.00	0	nr	0	nr	0	89.70	90	nr	0	-5235.72	0	-8580.92	0	nr	0
704	INC	nr	0	23.08	23	nr	0	nr	0	78.37	78	nr	75	nr	0	-2184.48	0	nr	0
705	INC	-212.04	0	43.74	44	52.88	53	32.84	33	-238.87	0	nr	0	nr	0	-3364.34	0	nr	75
706	INC	nr	0	64.87	65	nr	0	nr	0	-6211.60	0	nr	75	-285.81	0	-151.49	0	-895.02	0
707	INC	nr	0	62.86	63	nr	75	nr	0	-559.36	0	nr	0	nr	0	98.57	99	nr	50
708	INC	nr	0	39.80	40	nr	0	nr	50	-4479.16	0	nr	75	nr	0	-1047.43	0	nr	75
709	INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-1464.15	0	-1188.66	0	nr	0
710	INC	nr	0	45.78	46	nr	75	nr	0	63.05	63	99.10	99	-57.89	0	-240.91	0	nr	0
711	INC	nr	0	47.67	48	nr	0	nr	0	-3874.02	0	nr	75	nr	0	-591.02	0	nr	75
712	INC	nr	0	30.97	31	-3458.83	0	-241.79	0	nr	0	nr	0	nr	0	nr	0	nr	0
713	INC	nr	0	77.78	78	nr	50	nr	0	-27.56	0	nr	75	nr	0	-4897.31	0	nr	75
714	INC	nr	0	18.48	18	nr	75	nr	0	33.34	33	nr	0	nr	0	-490.50	0	nr	50
725	INC	-2381.79	0	24.62	25	-103.28	0	-69.64	0	-515.50	0	97.71	98	-1042.86	0	-2320.90	0	3.85	4
726	INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	-36.95	0	-394.32	0	nr	0
727	INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	89.16	89	95.49	95	nr	0
728	INC	nr	0	65.04	65	nr	0	nr	0	-8462.93	0	nr	75	nr	0	nr	0	nr	75
784	INC	nr	0	63.41	63	nr	75	nr	50	96.31	96	nr	0	nr	0	-2646.55	0	nr	0
805	INC	nr	0	73.50	73	nr	0	nr	0	nr	50	73.72	74	-316.46	0	70.78	71	nr	75
806	INC	74.65	75	66.47	66	85.41	85	-1025.54	0	24.67	25	nr	75	-31.36	0	49.17	49	nr	0
807	INC	-250.14	0	39.43	39	54.90	55	53.04	53	-1536.67	0	-349.69	0	-795.81	0	-1762.35	0	42.53	43
808	INC	nr	0	-38.32	0	nr	75	nr	50	-7885.28	0	nr	0	nr	0	-96.76	0	-29.87	0
809	INC	nr	0	nr	0	99.21	99	97.87	98	nr	0	nr	75	-354.42	0	91.87	92	nr	75
810	INC	nr	0	nr	0	94.52	95	86.54	87	nr	0	nr	0	nr	0	-543.78	0	nr	0
824	INC	-5524.77	0	-134.37	0	-67.55	0	29.62	30	-1320.46	0	nr	75	nr	0	-1074.27	0	nr	0
825	INC	nr	50	80.00	80	nr	0	nr	0	-1321.95	0	nr	0	nr	0	nr	75	nr	50
902	INC	14.29	14	28.23	28	-231.54	0	-725.08	0	-634.89	0	nr	0	-354.81	0	-153.83	0	-3167.97	0
904	INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	-159.94	0	-19763.85	0	nr	0
905	INC	nr	0	nr	0	99.70	100	56.79	57	nr	0	nr	0	nr	0	-172.96	0	nr	25
906	INC	nr	0	77.68	78	nr	50	nr	75	75.64	76	nr	25	-891.12	0	-1559.85	0	nr	75
914	INC	nr	0	-257.14	0	nr	0	nr	50	nr	75	91.71	92	nr	75	-2677.78	0	95.44	95
915	INC	nr	75	73.45	73	93.48	93	88.18	88	nr	50	nr	0	6.98	7	84.49	84	52.94	53

TABLE 20. MODEL GROUP SELECTION FOR OPTION 1B WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCD	% Emissions Reduction Required to Meet Option 1b with 0% Feed Reduction							Model Group No.	Required Add-on Flue Gas Control
			Hg	LVM	HCl	Cl2	HC	CO	D/F		
200	CK	FF	0	79	0	0	0	na	25	18	Add WQ + FF
201	CK	FF	0	77	0	0	0	na	75	18	Add WQ + FF
202	CK	FF	0	0	0	0	0	na	0	7	Moderate DOM on FF
203	CK	ESP	0	0	47	0	0	na	96	16	Add WQ + CI + FF + PT
204	CK	ESP	0	0	0	0	0	na	65	18	Add WQ + FF
205	CK	ESP	0	0	0	0	0	na	0	3	Add FF
206	CK	ESP	0	0	25	0	0	na	83	19	Add WQ + IWS
207	CK	MC/ESP	0	0	0	0	0	na	0	3	Add FF
208	CK	ESP	0	0	0	0	0	na	0	2	Moderate DOM on ESP
228	CK	ESP	25	0	0	0	0	na	0	5	Add WQ + CI + FF
300	CK	ESP	0	9	0	0	0	na	98	5	Add WQ + CI + FF
301	CK	FF	74	0	0	0	0	na	75	4	Add CI + FF
302	CK	ESP	50	0	0	0	0	na	75	4	Add CI + FF
303	CK	QC/FF	0	0	0	0	0	na	0	1	None
304	CK	ESP	34	0	0	0	0	na	89	5	Add WQ + CI + FF
305	CK	ESP	0	0	42	0	0	na	99	16	Add WQ + CI + FF + PT
306	CK	MC/FF	99	0	0	0	0	na	0	5	Add WQ + CI + FF
308	CK	ESP	0	0	0	0	0	na	75	4	Add CI + FF
309	CK	MC/ESP	22	0	0	0	0	na	99	5	Add WQ + CI + FF
315	CK	FF	0	0	0	0	0	na	75	17	Add WQ
316	CK	FF	50	0	0	0	0	na	75	5	Add WQ + CI + FF
317	CK	FF	0	0	0	0	0	na	84	17	Add WQ
318	CK	ESP	0	0	0	0	0	na	75	4	Add CI + FF
319	CK	ESP	46	0	0	90	0	na	96	16	Add WQ + CI + FF + PT
320	CK	FF	0	0	0	52	0	na	0	9	Add PT
321	CK	ESP	50	0	0	61	0	na	0	8	Add CI + FF + PT
322	CK	ESP	0	0	0	0	0	na	93	20	Moderate DOM on ESP + Add WQ
323	CK	ESP	75	0	27	0	0	na	94	16	Add WQ + CI + FF + PT
335	CK	ESP	26	0	46	0	0	na	99	16	Add WQ + CI + FF + PT
401	CK	ESP	50	19	0	0	0	na	49	4	Add CI + FF
402	CK	ESP	7	25	0	71	0	na	0	8	Add CI + FF + PT
403	CK	ESP	97	0	0	0	0	na	81	5	Add WQ + CI + FF
404	CK	ESP	0	37	14	34	0	na	78	19	Add WQ + IWS
405	CK	ESP	0	72	0	0	0	na	50	4	Add CI + FF

EER ID No.	Type	Current APCD	% Emissions Reduction Required to Meet Option 1b with 0% Feed Reduction							Model Group No.	Required Add-on Flue Gas Control
			Hg	LVM	HCl	Cl2	HC	CO	D/F		
223	LWAK	FF	3	0	40	0	0	0	0	4	Add CI + FF + ST
224	LWAK	FF	0	0	0	0	0	0	0	1	None
225	LWAK	FF	0	0	0	0	0	0	0	1	None
226	LWAK	FF	0	0	0	0	0	0	0	1	None
227	LWAK	FF	0	0	14	0	0	0	0	5	Add ST
307	LWAK	FF/VS	94	0	0	0	0	0	0	3	Add CI + FF
310	LWAK	FF	0	0	0	0	0	0	0	2	Add FF
311	LWAK	FF	0	0	0	66	0	0	0	6	Add IWS
312	LWAK	FF	0	0	0	69	0	0	0	6	Add IWS
313	LWAK	FF	0	73	15	0	0	0	0	6	Add IWS
314	LWAK	FF	0	61	0	0	0	0	0	2	Add FF
336	LWAK	FF	0	0	0	0	0	0	0	2	Add FF

TABLE 20. MODEL GROUP SELECTION FOR OPTION 1B WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCD	% Emissions Reduction Required to Meet Option 1b with 0% Feed Reduction							Model Group No.	Required Add-on Flue Gas Control
			Hg	LVM	HCl	Cl2	HC	CO	D/F		
209	INC	WHB,FF/VQ/PT/DM	0	0	0	95	25	63	75	35	Moderate DOM on combustor + Add WQ + PT
210	INC	FF/S	75	75	26	0	0	0	25	3	Moderate DOM on existing WS + Add RH + CI + FF
211	INC	SS/PT/VS	0	50	0	88	0	0	0	4	Add IWS
212	INC	FF/S	0	0	71	0	0	0	0	7	Moderate DOM on existing FF & WS
214	INC	IWS	85	47	0	25	0	0	0	29	Small DOM on existing IWS + Add RH + CI +FF
216	INC	HES/WS	0	39	0	0	0	0	0	6	Add FF
221	INC	PT	0	0	0	84	0	0	52	13	Add RH + CI + FF + PT
222	INC	WHB/SD/ESP/Q/PBS	50	0	0	0	0	0	83	8	Add CI
229	INC	WHB/ACS/HCS/CS	0	0	71	75	0	75	96	43	Add AB + RH + CB + IWS
324	INC	?	0	28	76	0	0	0	75	13	Add RH + CI + FF + PT
325	INC	SD/FF/WS/IWS	0	0	0	75	0	0	0	11	Moderate DOM on existing FF + Add PT
327	INC	SD/FF/WS/ESP	97	0	0	0	0	0	99	8	Add CI
329	INC	PT/IWS	75	75	0	0	0	0	50	9	Add RH + CI + FF
330	INC	QT/WS/DM	0	0	51	0	0	0	99	3	Moderate DOM on existing WS + Add RH + CI + FF
331	INC	PT/IWS	34	0	75	75	0	0	0	13	Add RH + CI + FF + PT
332	INC	WS	0	0	35	95	0	80	75	39	Add AB + RH + CI + FF + PT
333	INC	SD/FF	0	50	57	0	0	0	0	14	Moderate DOM on existing SD & FF
334	INC	WS/ESP/PT	0	84	0	0	0	0	89	9	Add RH + CI + FF
337	INC	WHB/DA/DI/FF	82	64	0	80	0	0	0	15	Moderate DOM on existing FF + Add CI + PT
338	INC	QC/FF/SS/C/HES/DM	50	0	0	0	0	0	0	8	Add CI
339	INC	AT/PT/RJS/ESP	75	0	0	0	0	0	0	28	Moderate DOM on ESP + Add RH + CB
340	INC	WHB/ESP/WS	0	0	0	75	0	0	75	20	Add WQ + CI + PT
341	INC	DA/DI/FF/HEPA/CA	0	0	0	0	0	0	50	8	Add CI
342	INC	WHB/QC/S/VS/DM	0	0	0	75	0	0	0	2	Add PT
344	INC	QC/VS/PT/DM	50	0	0	0	0	0	25	9	Add RH + CI + FF
346	INC	C/QC/VS/PT/DM	0	0	0	75	0	0	0	16	Moderate DOM on existing VS + Add PT
347	INC	C/QC/VS/S/DM	0	0	0	0	0	0	0	1	None
348	INC	QC/AS/IWS	75	0	0	0	0	0	75	32	Add RH + CB
349	INC	QC/FF/QC/PT	0	75	50	75	0	0	0	4	Add IWS
350	INC	WHB/HE/FF	0	50	0	0	0	0	0	6	Add FF
351	INC	GC/C/FF	0	0	0	75	0	0	50	34	Add CI + PT
353	INC	QC/VS/DM/ESP	0	33	0	0	0	0	0	17	Moderate DOM on existing ESP
354	INC	QC/AS/VS/DM/IWS	0	0	0	14	0	0	0	18	Small DOM on existing WS
356	INC	QC/AS/FN/DM	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
357	INC	QC/VS/PT/IWS	0	0	0	0	0	0	0	6	Add FF
358	INC	QC/VS/C/CT/S/DM	0	0	0	75	0	0	0	16	Moderate DOM on VS + Add PT
359	INC	WHB/FF/S	75	100	0	0	0	0	0	9	Add RH + CI + FF
400	INC	SD/FF	0	28	0	75	0	0	50	36	Add IWS + CI
500	INC	QC/VS/KOV/DM	0	0	0	89	0	0	0	2	Add PT
502	INC	WHB/QC/PBC/VS/ES	50	0	0	0	0	0	0	9	Add RH + CI + FF
503	INC	HTHE/LTHE/FF	0	81	0	75	0	50	75	38	Moderate DOM on combustor + Add IWS + CI
504	INC	VS/C	98	47	0	0	0	0	0	9	Add RH + CI + FF

TABLE 20. MODEL GROUP SELECTION FOR OPTION 1B WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCD	% Emissions Reduction Required to Meet Option 1b with 0% Feed Reduction							Model Group No.	Required Add-on Flue Gas Control
			Hg	LVM	HCl	Cl2	HC	CO	D/F		
600	INC	WHB/QC/PT/IWS	0	50	0	75	0	0	0	4	Add IWS
700	INC	SD/RJS/VS/WS	0	89	0	0	0	0	0	6	Add FF
701	INC	VS/PT	0	75	0	0	0	0	50	9	Add RH + CI + FF
702	INC	QT/S/C	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
703	INC	WHB	75	0	92	0	0	0	0	20	Add WQ + CB + PT
704	INC	NONE	0	0	84	75	0	0	0	4	Add IWS
705	INC	QT/VS/ESP/PT	0	33	0	0	0	0	75	9	Add RH + CI + FF
706	INC	QT/HS/C	0	0	0	75	0	0	0	16	Moderate DOM on VS + Add PT
707	INC	QT/WS	0	0	0	0	0	99	50	25	Add AB + RH + CI + FF
708	INC	WS/ESP	0	50	0	75	0	0	75	13	Add RH + CI + FF + PT
709	INC	NONE	50	0	0	0	0	0	0	10	Add WQ + CB + FF
710	INC	QT/OS/C/S	0	0	72	99	0	0	0	4	Add IWS
711	INC	C/VS/AS	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
712	INC	NONE	0	0	0	0	0	0	0	6	Add FF
713	INC	VS/PT	0	0	4	75	0	0	75	13	Add RH + CI + FF + PT
714	INC	WS	0	0	50	0	0	0	50	3	Moderate DOM on existing WS + Add RH + CI + FF
725	INC	WS/QT	0	0	0	98	0	0	4	13	Add RH + CI + FF + PT
726	INC	QC/CS/DM/VS	75	75	0	75	0	0	0	13	Add RH + CI + FF + PT
727	INC	GC/C/FF	0	50	0	0	89	95	0	21	Add AB + FF
728	INC	QT/PT/VS	0	0	0	75	0	0	75	37	Moderate DOM on existing VS + Add RH + CB + PT
784	INC	NONE	0	50	97	0	0	0	0	4	Add IWS
805	INC	QT/QS/VS/ES/PBS	0	0	50	80	0	71	75	24	Moderate DOM on Combustor +Add RH + CI + PT + FF
806	INC	C/VS	81	0	44	75	0	49	0	24	Moderate DOM on Combustor +Add RH + CI + PT + FF
807	INC	C/WHB/VQ/PT/HS/DM	0	53	0	0	0	0	43	9	Add RH + CI + FF
808	INC	QT/PBS/ESP	0	50	0	0	0	0	0	6	Add FF
809	INC	VS	0	98	0	75	0	92	75	39	Add AB + RH + CI + FF + PT
810	INC	Q/VS/PBS	0	87	0	0	0	0	0	6	Add FF
824	INC	QT/VS/PT/DM	0	30	0	75	0	0	0	16	Moderate DOM on existing VS + Add PT
825	INC	CCS/QC/ESP	50	0	0	0	0	75	50	25	Add AB + RH + CI + FF
902	INC	QT/VS/PT	36	0	0	0	0	0	0	9	Add RH + CI + FF
904	INC	?	0	0	0	0	0	0	0	6	Add FF
905	INC	QT/VS/AS/CS	0	57	0	0	0	0	25	9	Add RH + CI + FF
906	INC	QT/PT	0	75	82	25	0	0	75	42	Add RH + CB + IWS
914	INC	?	0	50	75	94	75	0	95	39	Add AB + RH + CI + FF + PT
915	INC	QC/VS/C	75	88	50	0	7	84	53	39	Add AB + RH + CI + FF + PT

TABLE C-5c. CHARACTERIZATION OF MODEL PLANTS, OPTION 1B, 0% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
CK	Group 1	None	1	303	L	Lone Star	MC/FF	408,681	370,000	
	Group 2	Moderate DOM on ESP	1	208	L	Keystone	ESP	307,644	370,000	
	Group 3	Add FF	1	207	S	Keystone	MC/ESP	90,681	147,000	
			1	205	L	Holnam	ESP	253,556	370,000	
	Group 4	Add CI + FF	1	301	S	Essroc	FF	185,409	147,000	
			2	302 *	S	Lafarge	ESP	130,576	147,000	
			3	308 *	S	North Texas	ESP	162,599	147,000	
			4	318 *	S	Texas Industries	ESP	152,675	147,000	
			1	401	S	Ash Grove	ESP	172,481	147,000	
			1	405 *	S	Ash Grove	ESP	194,905	147,000	
	Group 5	Add Q + CI + FF	1	228 *	S	Ash Grove	ESP	148,537	147,000	
			2	300	S	Essroc	ESP	164,692	147,000	
			1	403	S	Ash Grove	ESP	184,877	147,000	
			1	304	L	Lone Star	ESP	300,367	370,000	
			1	306	L	National	MC/FF	280,868	370,000	
			1	309	L	River Cement	MC/ESP	665,839	370,000	
			1	316 *	L	Southdown	FF	nr	370,000	
	Group 7	Moderate DOM on FF	1	202	L	Heartland	FF	221,421	370,000	
	Group 8	Add CI + FF + PT	1	321 *	S	Lafarge	ESP	59,542	147,000	85
			1	402	S	Ash Grove	ESP	187,605	147,000	85
	Group 9	Add PT	3	320	L	Lafarge	FF	nr	370,000	85
	Group 16	Add Q + CI + FF + PT	2	305	S	Medusa	ESP	196,903	147,000	85
			1	323	S	Lafarge	FF	185,409	147,000	85
			1	335	S	Medusa	ESP	100,378	147,000	85
			1	203	L	Holnam	ESP	291,645	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
	Group 17	Add Q	1	315 *	S	Southdown	FF	102,042	147,000	
			1	317	L	Southdown	FF	422,190	370,000	
	Group 18	Add Q + FF	2	200 *	S	Giant	FF	123,584	147,000	
			2	201 *	S	Giant	FF	137,945	147,000	
			1	204	L	Holnam	ESP	693,613	370,000	
	Group 19	Add Q + IWS	1	206	L	Holnam	ESP	348,510	370,000	85
			1	404	L	Ash Grove	ESP	265,721	370,000	85
	Group 20	Moderate DOM on ESP + Add Q	1	322	S	Lafarge	ESP	112,269	147,000	
LWAK	Group 1	None	1	224	M	Solite	FF	39,049	40,500	
			1	225	M	Solite	FF	38,270	40,500	
			1	226	M	Solite	FF	nr	40,500	
	Group 2	Add FF	1	310	M	Solite	FF	47,770	40,500	
			1	314	M	Solite	FF	36,793	40,500	
			1	336 *	M	Solite	FF	30,336	40,500	
	Group 3	Add CI + FF	2	307	M	Norlite	FF/VS	49,050	40,500	

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
	Group 4	Add CI + FF + ST	1	223	M	Solite	FF	29,092	40,500	1,570
	Group 5	Add ST	1	227	M (hi HCl)	Solite	FF	38,796	40,500	1,570
	Group 6	Add IWS	1	311	M (hi HCl)	Solite	FF	51,627	40,500	1,570
			1	312	M (hi HCl)	Solite	FF	47,698	40,500	1,570
			1	313	M (hi HCl)	Solite	FF	36,793	40,500	1,570
INC	Group 1	None	1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
	Group 2	Add PT	1	342 *	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92
			1	500	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92
	Group 3	Moderate DOM on existing WS + Add RH + CI + FF	1	330	M	General Electric	QT/WS/DM	10,345	22,100	
			2	714 *	M	Olin Chemical	WS	19,185	22,100	
			1	210 *	L	LWD	FF/S	96,107	60,800	
	Group 4	Add IWS	2	349 *	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
			1	704	S	Ashland	NONE	5,011	3,900	92
			1	784	S	Cook Composites	NONE	nr	3,900	92
			1	710	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	211 *	L	LWD	SS/PT/VS	43,596	60,800	92
			1	600 *	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
	Group 6	Add FF	1	904 *	S	First Chemical	?	5,950	3,900	
			1	350 *	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	357 *	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
			1	808	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
			1	810	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
			1	216	L	Rollins	HES/WS	40,002	60,800	
			1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	Moderate DOM on existing FF & WS	1	212	L	LWD	FF/S	44,610	60,800	
INC (cont.)	Group 8	Add CI	1	341 *	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	222	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
			1	327	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
			1	338 *	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add RH + CI + FF	1	502 *	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	
			1	905 *	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	344 *	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	359 *	M	Atochem	WHB/FF/S	13,802	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	701 *	M	Eli Lilly	VS/PT	9,208	22,100	
			1	705 *	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	
			1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	329 *	L	Dupont	PT/IWS	53,489	60,800	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
	Group 10	Add Q + CB + FF	1	709 *	S	Cargill Chemical	NONE	3,123	3,900	
	Group 11	Moderate DOM on existing FF + PT	1	325 *	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92
	Group 13	Add RH + CI + FF + PT	1	356 *	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	708 *	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
			1	713 *	S	Pfizer	VS/PT	2,625	3,900	92
			1	725	S	Zeneca	WS/QT	1,489	3,900	92
			1	726 *	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	324 *	M	Allied	?	12,120	22,100	92
			1	702 *	M	Dupont	QT/S/C	nr	22,100	92
			1	221	L	Rollins	PT	51,114	60,800	92
			1	331 *	L	Ross	PT/IWS	44,379	60,800	92
			1	711 *	L	Chevron Chemical	C/VS/AS	52,907	60,800	92
	Group 14	Moderate DOM on existing SD & FF	1	333 *	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	Moderate DOM on existing FF + Add CI + PT	2	337	M	Olin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 16	Moderate DOM on existing VS + Add PT	1	824 *	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92
			1	346 *	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92
			1	358 *	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	706 *	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
	Group 17	Moderate DOM on existing ESP	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
INC	Group 18	Small DOM on existing WS	1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
(cont.)	Group 20	Add Q + CB + PT	1	703 *	S	Aristech	WHB	1,873	3,900	92
			1	340 *	M	Miles	WHB/ESP/WS	16,003	22,100	92
	Group 21	Add FF + AB	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
	Group 24	Moderate DOM on Combustor +Add RH + CI + PT + FF	1	805 *	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	92
			1	806	M	Amoco Oil	C/VS	20,641	22,100	92
	Group 25	Add RH + CI + FF + AB	1	825 *	M	General Electric	CCS/QC/ESP	21,363	22,100	
			1	707 *	L	Dupont	QT/WS	58,120	60,800	
	Group 28	Moderate DOM on ESP + RH + CB	1	339 *	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
	Group 29	Small DOM on existing IWS + Add RH + CI+FF	1	214 *	M	Rollins	IWS	34,655	22,100	
	Group 32	Add RH + CB	1	348 *	S	Occidental Chemical	QC/AS/IWS	nr	3,900	
	Group 34	Add CI + PT	1	351 *	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
	Group 35	Moderate DOM on combustor + Add Q + PT	1	209 *	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 36	Add IWS + CI	1	400 *	L	Marine Shale	SD/FF	179,333	60,800	92
	Group 37	Moderate DOM on existing VS + Add RH + CB + PT	1	728 *	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
	Group 38	Moderate DOM on combustor + Add IWS + CI	1	503 *	S	Lake City Army Ammo Plant	HTHE/LTHE/FF	4,747	3,900	92
	Group 39	Add RH + CI + FF + PT + AB	1	332 *	M	Thermalkem	WS	20,208	22,100	92
			1	914 *	M	Vertac Superfund	?	25,849	22,100	92
			1	915 *	M	Eastman Kodak	QC/VS/C	nr	22,100	

TABLE C-5c. CHARACTERIZATION OF MODEL PLANTS, OPTION 1B, 0% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
			1	809 *	L	Tennessee Eastman	VS	40,524	60,800	92
	Group 42	Add RH + CB + IWS	1	906 *	S	Monsanto	QT/PT	2,738	3,900	92
	Group 43	Add RH + CB + IWS + AB	1	229 *	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribution of reported values from other facilities.

** Reported Ratio is equal to the number of total units located at a site divided by the number of units for which information was reported.

Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units.

nr = not reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 1	L	None	1	$0K	$0K	$0K
	Group 2	L	DOM ESP mod	1	$3,136K	$287K	$699K
	Group 3	S	Add FF	1	$2,141K	$355K	$596K
		L		1	$5,072K	$754K	$1,325K
	Group 4	S	Add CI,FF	12	$2,611K	$718K	$1,022K
	Group 5	S	Add Q,CI,FF	4	$3,144K	$806K	$1,180K
		L		4	$6,570K	$1,645K	$2,414K
	Group 7	L	DOM FF mod	1	$315K	$104K	$115K
	Group 8	S	Add CI,FF,PT	2	$3,512K	$1,048K	$1,498K
	Group 9	L	Add PT	3	$1,934K	$684K	$999K
	Group 16	S	Add Q, CI, FF, PT	4	$4,045K	$1,136K	$1,656K
		L		2	$8,505K	$2,329K	$3,413K
	Group 17	S	Add Q	1	$533K	$88K	$158K
		L		1	$912K	$155K	$275K
	Group 18	S	Add Q, FF	4	$2,673K	$443K	$754K
		L		1	$5,984K	$909K	$1,601K
	Group 19	L	Add Q, IWS	2	$5,322K	$902K	$1,740K
	Group 20	S	Moderate DOM on existing ESP, Add Q	1	$2,290K	$237K	$538K
LWAKS	Group 1	M	None	3	$0K	$0K	$0K
	Group 2	M	Add FF	3	$661K	$161K	$236K
	Group 3	M	Add CI, FF	2	$1,074K	$350K	$480K
	Group 4	M (hi HCl)	Add CI, FF, ST	1	$2,302K	$680K	$1,009K
	Group 5	M (hi HCl)	Add ST	1	$1,229K	$330K	$530K
	Group 6	M (hi HCl)	Add IWS	3	$1,016K	$682K	$847K
Incinerators	Group 1	M	None	1	$0K	$0K	$0K
	Group 2	S	Add PT	1	$57K	$90K	$99K
		L		1	$445K	$195K	$267K
	Group 3	M	DOM WS mod, Add RH,CI/CB,FF	3	$1,004K	$405K	$541K
		L		1	$1,876K	$712K	$968K
	Group 4	S	Add IWS	4	$215K	$97K	$132K
		M		1	$680K	$144K	$254K
		L		2	$1,331K	$228K	$445K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators (cont)	Group 6	S	Add FF	1	$82K	$89K	$98K
		M		5	$295K	$121K	$154K
		L		2	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
	Group 8	M	Add CI/CB	1	$397K	$147K	$199K
		L		3	$425K	$224K	$280K
	Group 9	S	Add RH, CI/CB, FF	2	$575K	$241K	$315K
		M		7	$932K	$391K	$508K
		L		2	$1,681K	$672K	$876K
	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
	Group 11	M	DOM FF mod, Add PT	1	$223K	$130K	$164K
	Group 13	S	Add PT, RH, CI/CB, FF	5	$632K	$331K	$414K
		M		2	$1,137K	$515K	$665K
		L		3	$2,126K	$866K	$1,143K
	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	2	$620K	$278K	$364K
	Group 16	S	DOM VS mod, Add PT	1	$68K	$96K	$109K
		M		3	$250K	$159K	$205K
	Group 17	M	DOM ESP mod	1	$535K	$50K	$120K
	Group 18	M	DOM WS small	1	$40K	$13K	$20K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K
		M		1	$879K	$319K	$441K
	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
	Group 24	M	DOM combustor, Add PT,RH,CI/CB,FF	2	$1,291K	$515K	$690K
	Group 25	M	Add AB,RH,CI/CB,FF	1	$1,349K	$924K	$1,096K
		L		1	$2,223K	$1,947K	$2,223K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$178K	$267K
	Group 29	M	DOM IWS small, Add RH,CI/CB,FF	1	$972K	$403K	$528K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators (cont)	Group 32	S	Add RH, CB/CI	1	$493K	$152K	$216K
	Group 34	S	Add CI/CB, PT	1	$398K	$181K	$235K
	Group 35	M	Moderate DOM on Combustor, Add Q, PT	1	$637K	$172K	$267K
	Group 36	L	Add CI/CB, IWS	1	$1,755K	$452K	$725K
	Group 37	S	Moderate DOM on existng VS, Add RH, CI/CB, PT	1	$561K	$248K	$326K
	Group 38	S	Moderate DOM on Combustor, Add CI/CB, IWS	1	$672K	$188K	$287K
	Group 39	M	Add RH, CI/CB, FF, PT, AB	3	$1,554K	$1,048K	$1,253K
		L		1	$2,669K	$2,142K	$2,490K
	Group 42	S	Add RH, CI/CB, IWS	1	$708K	$249K	$348K
	Group 43	S	Add RH, CI/CB, IWS, AB	1	$973K	$441K	$576K

TABLE C-6a. REQUIRED REDUCTION TO MEET OPTION 1B WITH 25% FEED REDUCTION

EER Site ID No.	Facility	Hg Req. % Reduct.	Hg Adj.% Reduct.	PM Req. % Reduct.	PM Adj.% Reduct.	SVM Req. % Reduct.	SVM Adj.% Reduct.	LVM Req. % Reduct.	LVM Adj.% Reduct.	HCl Req.% Reduct.	HCl Adj.% Reduct.	Cl2 Req. % Reduct.	Cl2 Adj.% Reduct.	HC Req. % Reduct.	HC Adj.% Reduct.	CO Req. % Reduct.	CO Adj.% Reduct.	TEQ Req. % Reduct.	TEQ Adj.% Reduct
Floor Levels		30.00		0.03		60.00		80.00		60.00		1.00		20.00		na		0.20	
200	CK	-297.44	0	-118.49	0	-11.18	0	75.85	76	-365.89	0	-12896.09	0	nr	50	na	na	nr	25
201	CK	-1407.99	0	-130.41	0	-50.56	0	73.25	73	-298.50	0	-24771.29	0	nr	0	na	na	nr	75
202	CK	-94.60	0	-25.37	0	33.56	34	-215.07	0	-374.52	0	-385.88	0	nr	25	na	na	nr	0
203	CK	-569.70	0	-119.51	0	86.27	86	-236.48	0	30.76	31	-70.10	0	-5.26	0	na	na	96.43	96
204	CK	-129.25	0	0.26	0	84.04	84	-1362.77	0	-130000.40	0	-12137.22	0	nr	0	na	na	64.91	65
205	CK	-35.43	0	35.22	35	94.73	95	-366.92	0	-397.63	0	-532.00	0	10.95	11	na	na	-103.05	0
206	CK	-145.96	0	-25.08	0	72.13	72	-984.03	0	3.33	3	-3047.41	0	-65.62	0	na	na	82.61	83
207	CK	-139.37	0	-31.99	0	79.05	79	-381.13	0	-1689.68	0	-341.44	0	nr	0	na	na	-1150.00	0
208	CK	-94.07	0	-108.75	0	12.33	12	-677.54	0	-1861.54	0	-455.75	0	nr	0	na	na	-4238.39	0
228	CK	nr	25	nr	0	nr	75	nr	0	nr	0	nr	0	-18.34	0	na	na	2.44	0
300	CK	nr	0	58.04	58	96.03	96	-6.02	0	-133.28	0	-342.19	0	-4.58	0	na	na	98.33	98
301	CK	65.46	65	23.80	24	-730.24	0	-453.52	0	-35034.62	0	-630.73	0	-65.70	0	na	na	nr	75
302	CK	nr	0	-44.64	0	91.40	91	-355.66	0	-700.48	0	-176.54	0	nr	0	na	na	nr	75
303	CK	-37.41	0	-30.43	0	-199.20	0	-682.96	0	-1955.87	0	-1210.34	0	66.67	67	na	na	nr	0
304	CK	11.56	12	48.89	49	87.73	88	-130.78	0	-22535.67	0	-30004.93	0	nr	0	na	na	88.89	89
305	CK	-272.38	0	58.80	59	92.98	93	-212.74	0	25.45	25	-430.90	0	10.42	10	na	na	99.65	99
306	CK	98.85	99	-99.06	0	-367.57	0	-601.90	0	-3633.80	0	-669.23	0	nr	0	na	na	-266.30	0
308	CK	nr	0	-36.36	0	15.76	16	-1139.78	0	-1621.71	0	-68.87	0	nr	25	na	na	nr	75
309	CK	-3.62	0	-25.78	0	87.03	87	-1843.95	0	-64.30	0	-1060.80	0	-32.45	0	na	na	99.62	99
315	CK	nr	0	-2740.15	0	-413.88	0	-730.10	0	-3762.94	0	-5273.91	0	nr	50	na	na	nr	75
316	CK	nr	50	-154.44	0	-1240.79	0	-1238.86	0	-196.56	0	-43.33	0	-233.33	0	na	na	nr	75
317	CK	nr	0	-1230.87	0	-162.65	0	-296.42	0	-1653.41	0	-2574.16	0	64.17	64	na	na	83.87	84
318	CK	nr	0	-225.02	0	41.59	42	-401.89	0	-63.11	0	-1460.26	0	-207.69	0	na	na	nr	75
319	CK	27.68	28	20.00	20	87.88	88	-46.20	0	-30.38	0	87.33	87	68.94	69	na	na	96.42	96
320	CK	nr	0	-899.98	0	-3311.75	0	-2000.16	0	-2653.29	0	37.65	38	80.10	80	na	na	-136.97	0
321	CK	nr	50	71.43	71	-1038.05	0	-1518.62	0	-1645.51	0	49.40	49	nr	50	na	na	nr	0
322	CK	nr	0	-130.76	0	49.25	49	-258.34	0	-260.41	0	-534.67	0	-170.27	0	na	na	92.54	93
323	CK	nr	75	-7.14	0	91.25	91	-15.59	0	6.12	6	-1427.98	0	-90.48	0	na	na	94.44	94
335	CK	0.72	1	-48.08	0	89.12	89	-767.16	0	29.91	30	-221.34	0	-12.55	0	na	na	99.20	99
401	CK	33.99	34	42.41	42	91.62	92	6.01	6	-261.48	0	-128.90	0	61.33	61	na	na	48.72	49
402	CK	-24.45	0	43.93	44	97.77	98	12.79	13	-451.10	0	62.93	63	33.05	33	na	na	nr	0
403	CK	95.40	95	13.39	13	-152.84	0	-182.29	0	-13145.69	0	-5893.12	0	-13.19	0	na	na	81.31	81
404	CK	-840.56	0	-528.18	0	-36.09	0	27.44	27	-10.95	0	14.22	14	-25.96	0	na	na	77.88	78
405	CK	-98.12	0	-36.56	0	92.04	92	67.60	68	-3224.52	0	-253.98	0	6.65	7	na	na	nr	50

TABLE C-6a. REQUIRED REDUCTION TO MEET OPTION 1B WITH 25% FEED REDUCTION

EER Site ID No.	Facility	Hg Req. % Reduct.	Hg Adj.% Reduct.	PM Req. % Reduct.	PM Adj.% Reduct.	SVM Req. % Reduct.	SVM Adj.% Reduct.	LVM Req. % Reduct.	LVM Adj.% Reduct.	HCl Req.% Reduct.	HCl Adj.% Reduct.	Cl2 Req. % Reduct.	Cl2 Adj.% Reduct.	HC Req. % Reduct.	HC Adj.% Reduct.	CO Req. % Reduct.	CO Adj.% Reduct.	TEQ Req. % Reduct.	TEQ Adj.% Reduct
Floor Levels		30.00		0.015		60.00		80.00		1300.00		2.50		20.00		100.00		0.20	
223	LWAK	-7.48	0	-479.94	0	-1304.10	0	-124.69	0	19.94	20	-431.63	0	nr	0	nr	0	nr	0
224	LWAK	-132.64	0	-427.20	0	-1893.38	0	-331.05	0	-179818.36	0	-669.78	0	nr	0	nr	75	nr	0
225	LWAK	-611.87	0	-4045.81	0	-8044.14	0	-692.88	0	-187.02	0	-2277.15	0	nr	0	nr	0	nr	0
226	LWAK	nr	0	-1385.13	0	nr	0	nr	0	nr	0	nr	0	nr	0	nr	75	nr	0
227	LWAK	-99.44	0	-926.73	0	-287.87	0	-297.03	0	-13.96	0	-674.17	0	-60.00	0	92.51	93	nr	0
307	LWAK	93.22	93	-38.09	0	-1282.19	0	-25.21	0	-7777.68	0	-465.77	0	nr	0	-120.61	0	nr	0
310	LWAK	-140.88	0	6.25	6	76.47	76	-33.99	0	-44.98	0	-51.18	0	nr	0	nr	0	nr	0
311	LWAK	-120.44	0	-150.00	0	82.22	82	-121.23	0	-41.49	0	54.85	55	nr	0	nr	75	nr	0
312	LWAK	-295.26	0	-114.28	0	81.33	81	-126.36	0	-34.10	0	58.97	59	nr	0	nr	0	nr	0
313	LWAK	-8885.09	0	-150.00	0	82.36	82	72.82	73	-13.09	0	-438.64	0	nr	0	nr	75	nr	0
314	LWAK	-32.20	0	42.18	42	95.20	95	60.57	61	-111.03	0	-71.55	0	nr	0	nr	0	nr	0
336	LWAK	nr	0	-84.34	0	nr	75	nr	0	nr	0	nr	0	nr	0	nr	75	-418.13	0

EER Site ID No.	Facility	Hg Req. % Reduct.	Hg Adj.% Reduct.	PM Req. % Reduct.	PM Adj.% Reduct.	SVM Req. % Reduct.	SVM Adj.% Reduct.	LVM Req. % Reduct.	LVM Adj.% Reduct.	HCl Req.% Reduct.	HCl Adj.% Reduct.	Cl2 Req. % Reduct.	Cl2 Adj.% Reduct.	HC Req. % Reduct.	HC Adj.% Reduct.	CO Req. % Reduct.	CO Adj.% Reduct.	TEQ Req. % Reduct.	TEQ Adj.% Reduct
Floor Levels		30.00		0.015		60.00		80.00		25.00		1.00		20.00		100.00		0.20	
209	INC	-1148.23	0	-223.01	0	-901.19	0	-254.98	0	-213.86	0	93.77	94	nr	25	63.16	63	nr	75
210	INC	nr	25	-192.21	0	nr	50	nr	75	0.74	1	-323.19	0	-415.91	0	-27385.21	0	nr	25
211	INC	nr	0	-44.23	0	nr	75	nr	50	-43.80	0	83.61	84	-760.67	0	-2002.04	0	nr	0
212	INC	nr	0	36.13	36	nr	0	nr	0	61.68	62	-689.04	0	-478.16	0	-1934.62	0	nr	0
214	INC	79.84	80	35.45	35	89.14	89	47.30	47	-2225.59	0	nr	25	-1521.60	0	-561.99	0	-237.84	0
216	INC	-93.36	0	50.15	50	89.87	90	38.76	39	-254.00	0	nr	0	nr	0	-869.84	0	nr	0
221	INC	-378.09	0	-5.42	0	-95.30	0	-31.44	0	-172.95	0	78.17	78	-464.12	0	-552.36	0	52.38	52
222	INC	nr	50	-597.56	0	-2747.28	0	nr	0	-2256.19	0	-256.01	0	-6003.91	0	-167.49	0	82.76	83
229	INC	nr	0	21.26	21	-76.35	0	-33.89	0	61.77	62	nr	75	nr	0	nr	75	96.38	96
324	INC	nr	0	-38.89	0	87.59	88	27.68	28	67.66	68	nr	0	nr	0	-219.83	0	nr	75
325	INC	-38.37	0	-361.53	0	9.60	10	-152.27	0	-523.38	0	nr	75	-2263.92	0	-867.74	0	nr	0
327	INC	95.37	95	-1094.70	0	-289.48	0	-200.94	0	-927.02	0	-638.11	0	-284.23	0	-1096.05	0	98.75	99
329	INC	nr	75	50.74	51	nr	75	nr	75	-374.75	0	-274.78	0	-708.58	0	-935.58	0	nr	50
330	INC	-667.30	0	64.37	64	76.47	76	-49.79	0	34.29	34	nr	0	nr	0	nr	0	99.25	99
331	INC	11.85	12	-87.50	0	97.84	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-191.97	0
332	INC	nr	0	87.30	87	nr	0	nr	0	13.13	13	93.04	93	nr	0	80.00	80	nr	75
333	INC	nr	0	-1053.82	0	nr	0	nr	50	42.40	42	-135.54	0	nr	0	-2136.89	0	nr	0
334	INC	-568.65	0	72.94	73	98.24	98	84.07	84	-109.38	0	nr	0	-885.83	0	-34.96	0	89.47	89
337	INC	75.56	76	-6247.01	0	2.90	3	64.19	64	-9471.38	0	73.40	73	-514.48	0	-13061.51	0	nr	0
338	INC	33.95	34	-1099.99	0	-169.74	0	-5.63	0	-22288.80	0	-2617.49	0	-994.39	0	-4878.93	0	nr	0
339	INC	nr	75	-414.21	0	nr	25	nr	0	-91.67	0	-9966.49	0	-1513.97	0	nr	0	nr	0
340	INC	-288.20	0	-130.06	0	-817.42	0	-597.04	0	-99.81	0	nr	50	-1138.46	0	-238.04	0	nr	75
341	INC	-4187.18	0	-916.94	0	-478.44	0	-944.00	0	-2160.14	0	nr	0	nr	0	-73.46	0	nr	50
342	INC	-496.67	0	-316.97	0	-313.76	0	-3408.50	0	-15877.71	0	nr	75	nr	0	nr	0	nr	0
344	INC	nr	25	-826.62	0	-395.71	0	-16.98	0	-3569.67	0	nr	0	-1015.00	0	-519.62	0	nr	25
346	INC	-14284.42	0	-1067.30	0	11.30	11	-553.14	0	-4344.22	0	nr	75	nr	0	-255.68	0	-63.93	0
347	INC	-674.41	0	-115.39	0	-658.24	0	-443.92	0	-2138.44	0	nr	0	nr	0	nr	0	-936.27	0
348	INC	nr	75	-1399.99	0	-824.71	0	-2435.15	0	-59821.89	0	-167.39	0	nr	0	-1104.17	0	nr	75
349	INC	nr	0	-690.51	0	-114.45	0	nr	75	nr	50	nr	75	nr	0	-1053.22	0	nr	0
350	INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-2870.43	0	nr	0
351	INC	nr	0	-68.16	0	nr	0	-645.40	0	nr	0	nr	50	nr	0	-35.23	0	nr	50
353	INC	-890.94	0	30.81	31	20.30	20	32.99	33	nr	0	nr	0	nr	0	-529.10	0	-57.48	0
354	INC	-4687.46	0	-141.54	0	-3272.96	0	-684.78	0	-5572.48	0	-14.29	0	nr	0	-3281.50	0	-2624.80	0
356	INC	nr	0	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	0	-2601.64	0	nr	75
357	INC	nr	0	38.53	39	nr	75	nr	0	-390.75	0	nr	0	nr	0	-808.60	0	nr	0
358	INC	nr	0	52.79	53	nr	50	nr	0	-1005.24	0	nr	75	nr	0	-6563.08	0	nr	0
359	INC	nr	75	19.91	20	84.57	85	99.85	100	-315.01	0	nr	0	nr	0	-0.58	0	nr	0
400	INC	-149.13	0	-152.37	0	89.32	89	27.87	28	nr	0	nr	75	nr	0	nr	0	nr	50
500	INC	-1241.88	0	-767.27	0	-2717.13	0	-2249.06	0	-140.75	0	85.27	85	nr	0	nr	0	-430.50	0
502	INC	nr	25	57.14	57	93.67	94	-5.12	0	-59.17	0	nr	0	nr	0	nr	0	-796.86	0
503	INC	-157.87	0	43.40	43	89.61	90	81.34	81	nr	0	nr	75	nr	0	nr	50	nr	75
504	INC	97.84	98	16.67	17	-106.12	0	46.56	47	-628.63	0	nr	0	nr	0	nr	0	nr	0
600	INC	nr	0	-100.00	0	nr	0	nr	50	-2746.99	0	nr	75	nr	0	nr	0	nr	0
700	INC	-793.38	0	65.40	65	99.69	100	88.65	89	-152.96	0	-1002.22	0	nr	0	nr	0	nr	0
701	INC	nr	0	65.22	65	nr	0	nr	75	-209.72	0	nr	0	-2497.40	0	nr	0	nr	50
702	INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr	75
703	INC	nr	75	-400.00	0	nr	0	nr	0	89.70	90	nr	0	-5235.72	0	-8580.92	0	nr	0
704	INC	nr	0	23.08	23	nr	0	nr	0	78.37	78	nr	50	nr	0	-2184.48	0	nr	0
705	INC	-212.04	0	43.74	44	52.88	53	32.84	33	-238.87	0	nr	0	nr	0	-3364.34	0	nr	75
706	INC	nr	0	64.87	65	nr	0	nr	0	-6211.60	0	nr	75	-285.81	0	-151.49	0	-895.02	0
707	INC	nr	0	62.86	63	nr	75	nr	0	-559.36	0	nr	0	nr	0	98.57	99	nr	50
708	INC	nr	0	39.80	40	nr	0	nr	50	-4479.16	0	nr	75	nr	0	-1047.43	0	nr	75
709	INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-1464.15	0	-1188.66	0	nr	0
710	INC	nr	0	45.78	46	nr	75	nr	0	63.05	63	99.10	99	-57.89	0	-240.91	0	nr	0
711	INC	nr	0	47.67	48	nr	0	nr	0	-3874.02	0	nr	75	nr	0	-591.02	0	nr	75

EER Site ID No.	Facility	Hg Req. % Reduct.	Hg Adj.% Reduct.	PM Req. % Reduct.	PM Adj.% Reduct.	SVM Req. % Reduct.	SVM Adj.% Reduct.	LVM Req. % Reduct.	LVM Adj.% Reduct.	HCl Req.% Reduct.	HCl Adj.% Reduct.	Cl2 Req. % Reduct.	Cl2 Adj.% Reduct.	HC Req. % Reduct.	HC Adj.% Reduct.	CO Req. % Reduct.	CO Adj.% Reduct.	TEQ Req. % Reduct.	TEQ Adj.% Reduct
712	INC	nr	0	30.97	31	-3458.83	0	-241.79	0	nr	0	nr	0	nr	0	nr	0	nr	0
713	INC	nr	0	77.78	78	nr	50	nr	0	-27.56	0	nr	75	nr	0	-4897.31	0	nr	75
714	INC	nr	0	18.48	18	nr	75	nr	0	33.34	33	nr	0	nr	0	-490.50	0	nr	50
725	INC	-2381.79	0	24.62	25	-103.28	0	-69.64	0	-515.50	0	97.71	98	-1042.86	0	-2320.90	0	3.85	4
726	INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	-36.95	0	-394.32	0	nr	0
727	INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	89.16	89	95.49	95	nr	0
728	INC	nr	0	65.04	65	nr	0	nr	0	-8462.93	0	nr	75	nr	0	nr	0	nr	75
784	INC	nr	0	63.41	63	nr	75	nr	50	96.31	96	nr	0	nr	0	-2646.55	0	nr	0
805	INC	nr	0	73.50	73	nr	0	nr	0	nr	50	73.72	74	-316.46	0	70.78	71	nr	75
806	INC	74.65	75	66.47	66	85.41	85	-1025.54	0	24.67	25	nr	75	-31.36	0	49.17	49	nr	0
807	INC	-250.14	0	39.43	39	54.90	55	53.04	53	-1536.67	0	-349.69	0	-795.81	0	-1762.35	0	42.53	43
808	INC	nr	0	-38.32	0	nr	75	nr	50	-7885.28	0	nr	0	nr	0	-96.76	0	-29.87	0
809	INC	nr	0	nr	0	99.21	99	97.87	98	nr	0	nr	75	-354.42	0	91.87	92	nr	75
810	INC	nr	0	nr	0	94.52	95	86.54	87	nr	0	nr	0	nr	0	-543.78	0	nr	0
824	INC	-5524.77	0	-134.37	0	-67.55	0	29.62	30	-1320.46	0	nr	75	nr	0	-1074.27	0	nr	0
825	INC	nr	50	80.00	80	nr	0	nr	0	-1321.95	0	nr	0	nr	0	nr	75	nr	50
902	INC	14.29	14	28.23	28	-231.54	0	-725.08	0	-634.89	0	nr	0	-354.81	0	-153.83	0	-3167.97	0
904	INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	-159.94	0	-19763.85	0	nr	0
905	INC	nr	0	nr	0	99.70	100	56.79	57	nr	0	nr	0	nr	0	-172.96	0	nr	25
906	INC	nr	0	77.68	78	nr	25	nr	75	75.64	76	nr	50	-891.12	0	-1559.85	0	nr	75
914	INC	nr	0	-257.14	0	nr	0	nr	50	nr	25	91.71	92	nr	75	-2677.78	0	95.44	95
915	INC	nr	75	73.45	73	93.48	93	88.18	88	nr	0	nr	0	6.98	7	84.49	84	52.94	53

TABLE C-5b. MODEL GROUP SELECTION FOR OPTION 1B WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCD	% Emissions Reduction Required to Meet Option 1b with 0% Feed Reduction							Model Group No.	Required Add-on Flue Gas Control
			Hg	LVM	HCl	Cl2	HC	CO	D/F		
200	CK	FF	0	79	0	0	0	na	25	18	Add Q + FF
201	CK	FF	0	77	0	0	0	na	75	18	Add Q + FF
202	CK	FF	0	0	0	0	0	na	0	7	Moderate DOM on FF
203	CK	ESP	0	0	47	0	0	na	96	16	Add Q + CI + FF + PT
204	CK	ESP	0	0	0	0	0	na	65	18	Add Q + FF
205	CK	ESP	0	0	0	0	0	na	0	3	Add FF
206	CK	ESP	0	0	25	0	0	na	83	19	Add Q + IWS
207	CK	MC/ESP	0	0	0	0	0	na	0	3	Add FF
208	CK	ESP	0	0	0	0	0	na	0	2	Moderate DOM on ESP
228	CK	ESP	25	0	0	0	0	na	0	5	Add Q + CI + FF
300	CK	ESP	0	9	0	0	0	na	98	5	Add Q + CI + FF
301	CK	FF	74	0	0	0	0	na	75	4	Add CI + FF
302	CK	ESP	50	0	0	0	0	na	75	4	Add CI + FF
303	CK	QC/FF	0	0	0	0	0	na	0	1	None
304	CK	ESP	34	0	0	0	0	na	89	5	Add Q + CI + FF
305	CK	ESP	0	0	42	0	0	na	99	16	Add Q + CI + FF + PT
306	CK	MC/FF	99	0	0	0	0	na	0	5	Add Q + CI + FF
308	CK	ESP	0	0	0	0	0	na	75	4	Add CI + FF
309	CK	MC/ESP	22	0	0	0	0	na	99	5	Add Q + CI + FF
315	CK	FF	0	0	0	0	0	na	75	17	Add Q
316	CK	FF	50	0	0	0	0	na	75	5	Add Q + CI + FF
317	CK	FF	0	0	0	0	0	na	84	17	Add Q
318	CK	ESP	0	0	0	0	0	na	75	4	Add CI + FF
319	CK	ESP	46	0	0	90	0	na	96	16	Add Q + CI + FF + PT
320	CK	FF	0	0	0	52	0	na	0	9	Add PT
321	CK	ESP	50	0	0	61	0	na	0	8	Add CI + FF + PT
322	CK	ESP	0	0	0	0	0	na	93	20	Moderate DOM on ESP + Add Q
323	CK	ESP	75	0	27	0	0	na	94	16	Add Q + CI + FF + PT
335	CK	ESP	26	0	46	0	0	na	99	16	Add Q + CI + FF + PT
401	CK	ESP	50	19	0	0	0	na	49	4	Add CI + FF
402	CK	ESP	7	25	0	71	0	na	0	8	Add CI + FF + PT
403	CK	ESP	97	0	0	0	0	na	81	5	Add Q + CI + FF
404	CK	ESP	0	37	14	34	0	na	78	19	Add Q + IWS
405	CK	ESP	0	72	0	0	0	na	50	4	Add CI + FF

TABLE C-5b. MODEL GROUP SELECTION FOR OPTION 1B WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCD	% Emissions Reduction Required to Meet Option 1b with 0% Feed Reduction							Model Group No.	Required Add-on Flue Gas Control
			Hg	LVM	HCl	Cl2	HC	CO	D/F		
223	LWAK	FF	3	0	40	0	0	0	0	4	Add CI + FF + ST
224	LWAK	FF	0	0	0	0	0	0	0	1	None
225	LWAK	FF	0	0	0	0	0	0	0	1	None
226	LWAK	FF	0	0	0	0	0	0	0	1	None
227	LWAK	FF	0	0	14	0	0	0	0	5	Add ST
307	LWAK	FF/VS	94	0	0	0	0	0	0	3	Add CI + FF
310	LWAK	FF	0	0	0	0	0	0	0	2	Add FF
311	LWAK	FF	0	0	0	66	0	0	0	6	Add IWS
312	LWAK	FF	0	0	0	69	0	0	0	6	Add IWS
313	LWAK	FF	0	73	15	0	0	0	0	6	Add IWS
314	LWAK	FF	0	61	0	0	0	0	0	2	Add FF
336	LWAK	FF	0	0	0	0	0	0	0	2	Add FF

TABLE C-5b. MODEL GROUP SELECTION FOR OPTION 1B WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCD	% Emissions Reduction Required to Meet Option 1b with 0% Feed Reduction							Model Group No.	Required Add-on Flue Gas Control
			Hg	LVM	HCl	Cl2	HC	CO	D/F		
209	INC	WHB,FF/VQ/PT/DM	0	0	0	95	25	63	75	35	Moderate DOM on combustor + Add Q + PT
210	INC	FF/S	75	75	26	0	0	0	25	3	Moderate DOM on existing WS + Add RH + CI + FF
211	INC	SS/PT/VS	0	50	0	88	0	0	0	4	Add IWS
212	INC	FF/S	0	0	71	0	0	0	0	7	Moderate DOM on existing FF & WS
214	INC	IWS	85	47	0	25	0	0	0	29	Small DOM on existing IWS + Add RH + CI+FF
216	INC	HES/WS	0	39	0	0	0	0	0	6	Add FF
221	INC	PT	0	0	0	84	0	0	52	13	Add RH + CI + FF + PT
222	INC	WHB/SD/ESP/Q/PBS	50	0	0	0	0	0	83	8	Add CI
229	INC	WHB/ACS/HCS/CS	0	0	71	75	0	75	96	43	Add RH + CB + IWS + AB
324	INC	?	0	28	76	0	0	0	75	13	Add RH + CI + FF + PT
325	INC	SD/FF/WS/IWS	0	0	0	75	0	0	0	11	Moderate DOM on existing FF + Add PT
327	INC	SD/FF/WS/ESP	97	0	0	0	0	0	99	8	Add CI
329	INC	PT/IWS	75	75	0	0	0	0	50	9	Add RH + CI + FF
330	INC	QT/WS/DM	0	0	51	0	0	0	99	3	Moderate DOM on existing WS + Add RH + CI + FF
331	INC	PT/IWS	34	0	75	75	0	0	0	13	Add RH + CI + FF + PT
332	INC	WS	0	0	35	95	0	80	75	39	Add RH + CI + FF + PT + AB
333	INC	SD/FF	0	50	57	0	0	0	0	14	Moderate DOM on existing SD & FF
334	INC	WS/ESP/PT	0	84	0	0	0	0	89	9	Add RH + CI + FF
337	INC	WHB/DA/DI/FF	82	64	0	80	0	0	0	15	Moderate DOM on existing FF + Add CI + PT
338	INC	QC/FF/SS/C/HES/DM	50	0	0	0	0	0	0	8	Add CI
339	INC	AT/PT/RJS/ESP	75	0	0	0	0	0	0	28	Moderate DOM on ESP + Add RH + CB
340	INC	WHB/ESP/WS	0	0	0	75	0	0	75	20	Add Q + CI + PT
341	INC	DA/DI/FF/HEPA/CA	0	0	0	0	0	0	50	8	Add CI
342	INC	WHB/QC/S/VS/DM	0	0	0	75	0	0	0	2	Add PT
344	INC	QC/VS/PT/DM	50	0	0	0	0	0	25	9	Add RH + CI + FF
346	INC	C/QC/VS/PT/DM	0	0	0	75	0	0	0	16	Moderate DOM on existing VS + Add PT
347	INC	C/QC/VS/S/DM	0	0	0	0	0	0	0	1	None
348	INC	QC/AS/IWS	75	0	0	0	0	0	75	32	Add RH + CB
349	INC	QC/FF/QC/PT	0	75	50	75	0	0	0	4	Add IWS
350	INC	WHB/HE/FF	0	50	0	0	0	0	0	6	Add FF
351	INC	GC/C/FF	0	0	0	75	0	0	50	34	Add CI + PT
353	INC	QC/VS/DM/ESP	0	33	0	0	0	0	0	17	Moderate DOM on existing ESP
354	INC	QC/AS/VS/DM/IWS	0	0	0	14	0	0	0	18	Small DOM on existing WS
356	INC	QC/AS/FN/DM	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
357	INC	QC/VS/PT/IWS	0	0	0	0	0	0	0	6	Add FF
358	INC	QC/VS/C/CT/S/DM	0	0	0	75	0	0	0	16	Moderate DOM on VS + Add PT
359	INC	WHB/FF/S	75	100	0	0	0	0	0	9	Add RH + CI + FF
400	INC	SD/FF	0	28	0	75	0	0	50	36	Add IWS + CI
500	INC	QC/VS/KOV/DM	0	0	0	89	0	0	0	2	Add PT
502	INC	WHB/QC/PBC/VS/ES	50	0	0	0	0	0	0	9	Add RH + CI + FF

TABLE C-5b. MODEL GROUP SELECTION FOR OPTION 1B WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCD	% Emissions Reduction Required to Meet Option 1b with 0% Feed Reduction							Model Group No.	Required Add-on Flue Gas Control
			Hg	LVM	HCl	Cl2	HC	CO	D/F		
503	INC	HTHE/LTHE/FF	0	81	0	75	0	50	75	38	Moderate DOM on combustor + Add IWS + CI
504	INC	VS/C	98	47	0	0	0	0	0	9	Add RH + CI + FF
600	INC	WHB/QC/PT/IWS	0	50	0	75	0	0	0	4	Add IWS
700	INC	SD/RJS/VS/WS	0	89	0	0	0	0	0	6	Add FF
701	INC	VS/PT	0	75	0	0	0	0	50	9	Add RH + CI + FF
702	INC	QT/S/C	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
703	INC	WHB	75	0	92	0	0	0	0	20	Add Q + CB + PT
704	INC	NONE	0	0	84	75	0	0	0	4	Add IWS
705	INC	QT/VS/ESP/PT	0	33	0	0	0	0	75	9	Add RH + CI + FF
706	INC	QT/HS/C	0	0	0	75	0	0	0	16	Moderate DOM on VS + Add PT
707	INC	QT/WS	0	0	0	0	0	99	50	25	Add RH + CI + FF + AB
708	INC	WS/ESP	0	50	0	75	0	0	75	13	Add RH + CI + FF + PT
709	INC	NONE	50	0	0	0	0	0	0	10	Add Q + CB + FF
710	INC	QT/OS/C/S	0	0	72	99	0	0	0	4	Add IWS
711	INC	C/VS/AS	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
712	INC	NONE	0	0	0	0	0	0	0	6	Add FF
713	INC	VS/PT	0	0	4	75	0	0	75	13	Add RH + CI + FF + PT
714	INC	WS	0	0	50	0	0	0	50	3	Moderate DOM on existing WS + Add RH + CI + FF
725	INC	WS/QT	0	0	0	98	0	0	4	13	Add RH + CI + FF + PT
726	INC	QC/CS/DM/VS	75	75	0	75	0	0	0	13	Add RH + CI + FF + PT
727	INC	GC/C/FF	0	50	0	0	89	95	0	21	Add FF + AB
728	INC	QT/PT/VS	0	0	0	75	0	0	75	37	Moderate DOM on existing VS + Add RH + CB + PT
784	INC	NONE	0	50	97	0	0	0	0	4	Add IWS
805	INC	QT/QS/VS/ES/PBS	0	0	50	80	0	71	75	24	Moderate DOM on Combustor +Add RH + CI + PT + FF
806	INC	C/VS	81	0	44	75	0	49	0	24	Moderate DOM on Combustor +Add RH + CI + PT + FF
807	INC	C/WHB/VQ/PT/HS/DM	0	53	0	0	0	0	43	9	Add RH + CI + FF
808	INC	QT/PBS/ESP	0	50	0	0	0	0	0	6	Add FF
809	INC	VS	0	98	0	75	0	92	75	39	Add RH + CI + FF + PT + AB
810	INC	Q/VS/PBS	0	87	0	0	0	0	0	6	Add FF
824	INC	QT/VS/PT/DM	0	30	0	75	0	0	0	16	Moderate DOM on existing VS + Add PT
825	INC	CCS/QC/ESP	50	0	0	0	0	75	50	25	Add RH + CI + FF + AB
902	INC	QT/VS/PT	36	0	0	0	0	0	0	9	Add RH + CI + FF
904	INC	?	0	0	0	0	0	0	0	6	Add FF
905	INC	QT/VS/AS/CS	0	57	0	0	0	0	25	9	Add RH + CI + FF
906	INC	QT/PT	0	75	82	25	0	0	75	42	Add RH + CB + IWS
914	INC	?	0	50	75	94	75	0	95	39	Add RH + CI + FF + PT + AB
915	INC	QC/VS/C	75	88	50	0	7	84	53	39	Add RH + CI + FF + PT + AB

TABLE C-5b. MODEL GROUP SELECTION FOR OPTION 1B WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCD	% Emissions Reduction Required to Meet Option 1b with 0% Feed Reduction							Model Group No.	Required Add-on Flue Gas Control
			Hg	LVM	HCl	Cl2	HC	CO	D/F		

TABLE C-6c. CHARACTERIZATION OF MODEL PLANTS, OPTION 1B, 25% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
CK	Group 1	None	1	303	L	Lone Star	MC/FF	408,681	370,000	
	Group 3	Add FF	1	207	S	Keystone	MC/ESP	90,681	147,000	
			1	205	L	Holnam	ESP	253,556	370,000	
	Group 4	Add CI + FF	1	301	S	Essroc	FF	185,409	147,000	
			2	302 *	S	Lafarge	ESP	130,576	147,000	
			3	308 *	S	North Texas	ESP	162,599	147,000	
			4	318 *	S	Texas Industries	ESP	152,675	147,000	
			1	401	S	Ash Grove	ESP	172,481	147,000	
			1	405 *	S	Ash Grove	ESP	194,905	147,000	
	Group 5	Add Q + CI + FF	1	228 *	S	Ash Grove	ESP	148,537	147,000	
			2	300	S	Essroc	ESP	164,692	147,000	
			1	403	S	Ash Grove	ESP	184,877	147,000	
			1	304	L	Lone Star	ESP	300,367	370,000	
			1	306	L	National	MC/FF	280,868	370,000	
			1	309	L	River Cement	MC/ESP	665,839	370,000	
			1	316 *	L	Southdown	FF	nr	370,000	
	Group 6	Add IWS	1	402	S	Ash Grove	ESP	187,605	147,000	85
	Group 7	Moderate DOM on FF	1	202	L	Heartland	FF	221,421	370,000	
	Group 8	Add CI + FF + PT	1	321 *	S	Lafarge	ESP	59,542	147,000	85
	Group 9	Add PT	3	320	L	Lafarge	FF	nr	370,000	85
	Group 10	Small DOM on ESP	1	208	L	Keystone	ESP	307,644	370,000	
	Group 16	Add Q + CI + FF + PT	2	305	S	Medusa	ESP	196,903	147,000	85
			1	323	S	Lafarge	FF	185,409	147,000	85
			1	335	S	Medusa	ESP	100,378	147,000	85
			1	203	L	Holnam	ESP	291,645	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
	Group 17	Add Q	1	315 *	S	Southdown	FF	102,042	147,000	
			1	317	L	Southdown	FF	422,190	370,000	
	Group 18	Add Q + FF	2	200 *	S	Giant	FF	123,584	147,000	
			1	204	L	Holnam	ESP	693,613	370,000	
	Group 19	Add Q + IWS	1	206	L	Holnam	ESP	348,510	370,000	85
			1	404	L	Ash Grove	ESP	265,721	370,000	85
	Group 20	Moderate DOM on ESP + Add Q	1	322	S	Lafarge	ESP	112,269	147,000	
	Group 21	Moderate DOM on FF + Add Q	2	201 *	S	Giant	FF	137,945	147,000	
LWAK	Group 1	None	1	227	M	Solite	FF	38,796	40,500	
			1	224	M	Solite	FF	39,049	40,500	
			1	225	M	Solite	FF	38,270	40,500	
			1	226	M	Solite	FF	nr	40,500	
	Group 2	Add FF	1	313	M	Solite	FF	36,793	40,500	
			1	310	M	Solite	FF	47,770	40,500	
			1	314	M	Solite	FF	36,793	40,500	
			1	336 *	M	Solite	FF	30,336	40,500	

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
	Group 3	Add CI + FF	2	307	M	Norlite	FF/VS	49,050	40,500	
	Group 5	Add ST	1	223	M (hi HCl)	Solite	FF	29,092	40,500	1,570
	Group 6	Add IWS	1	311	M (hi HCl)	Solite	FF	51,627	40,500	1,570
			1	312	M (hi HCl)	Solite	FF	47,698	40,500	1,570
INC	Group 1	None	1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
	Group 2	Add PT	1	342 *	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92
			1	500	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92
	Group 3	Moderate DOM on existing WS + Add RH + CI + FF	1	330	M	General Electric	QT/WS/DM	10,345	22,100	
			2	714 *	M	Olin Chemical	WS	19,185	22,100	
			1	210 *	L	LWD	FF/S	96,107	60,800	
	Group 4	Add IWS	2	349 *	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
			1	704	S	Ashland	NONE	5,011	3,900	92
			1	784	S	Cook Composites	NONE	nr	3,900	92
			1	710	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	211 *	L	LWD	SS/PT/VS	43,596	60,800	92
			1	600 *	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
	Group 6	Add FF	1	904 *	S	First Chemical	?	5,950	3,900	
			1	350 *	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	357 *	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
			1	808 *	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
			1	810	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
			1	216	L	Rollins	HES/WS	40,002	60,800	
			1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	Moderate DOM on existing FF & WS	1	212	L	LWD	FF/S	44,610	60,800	
	Group 8	Add CI	1	341 *	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	222	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
INC (cont.)			1	327	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
			1	338	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add RH + CI + FF	1	502	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	
			1	905 *	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	344 *	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	359 *	M	Atochem	WHB/FF/S	13,802	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	701 *	M	Eli Lilly	VS/PT	9,208	22,100	
			1	705 *	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	
			1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	329 *	L	Dupont	PT/IWS	53,489	60,800	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	
	Group 10	Add Q + CB + FF	1	709 *	S	Cargill Chemical	NONE	3,123	3,900	
	Group 11	Moderate DOM on existing FF + Add PT	1	325 *	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
	Group 13	Add RH + CI + FF + PT	1	356 *	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	708 *	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
			1	713 *	S	Pfizer	VS/PT	2,625	3,900	92
			1	725	S	Zeneca	WS/QT	1,489	3,900	92
			1	726 *	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	324 *	M	Allied	?	12,120	22,100	92
			1	702 *	M	Dupont	QT/S/C	nr	22,100	92
			1	221	L	Rollins	PT	51,114	60,800	92
			1	331 *	L	Ross	PT/IWS	44,379	60,800	92
			1	711 *	L	Chevron Chemical	C/VS/AS	52,907	60,800	92
	Group 14	Moderate DOM on existing SD & FF	1	333 *	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	Moderate DOM on existing FF + Add CI + PT	2	337	M	Olnin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 16	Moderate DOM on existing VS + Add PT	1	824 *	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92
			1	346 *	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92
			1	358 *	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	706 *	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
	Group 17	Moderate DOM on existing ESP	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
	Group 18	Small DOM on existing WS	1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
	Group 20	Add Q + CB + PT	1	703 *	S	Aristech	WHB	1,873	3,900	92
			1	340 *	M	Miles	WHB/ESP/WS	16,003	22,100	92
	Group 21	Add FF + AB	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
INC (cont.)	Group 24	Moderate DOM on Combustor +Add RH + CI + PT + FF	1	805 *	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	92
			1	806 *	M	Amoco Oil	C/VS	20,641	22,100	92
	Group 25	Add RH + CI + FF + AB	1	825 *	M	General Electric	CCS/QC/ESP	21,363	22,100	
			1	707 *	L	Dupont	QT/WS	58,120	60,800	
	Group 28	Moderate DOM on ESP + Add RH + CB	1	339 *	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
	Group 29	Small DOM on existing IWS + Add RH + CI+FF	1	214 *	M	Rollins	IWS	34,655	22,100	
	Group 32	Add RH + CB	1	348 *	S	Occidental Chemical	QC/AS/IWS	nr	3,900	
	Group 34	Add CI + PT	1	351 *	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
	Group 35	Moderate DOM on combustor + Add Q + PT	1	209 *	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 36	Add IWS + CI	1	400 *	L	Marine Shale	SD/FF	179,333	60,800	92
	Group 37	Moderate DOM on existing VS + Add RH + CB + PT	1	728 *	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
	Group 38	Moderate DOM on combustor + Add IWS + CI	1	503 *	S	Lake City Army Ammo Plant	HTHE/LTHE/FF	4,747	3,900	92
	Group 39	Add RH + CI + FF + PT + AB	1	332 *	M	Thermalkem	WS	20,208	22,100	92
			1	914 *	M	Vertac Superfund	?	25,849	22,100	92
			1	915	M	Eastman Kodak	QC/VS/C	nr	22,100	
			1	809 *	L	Tennessee Eastman	VS	40,524	60,800	92
	Group 42	Add RH + CB + IWS	1	906 *	S	Monsanto	QT/PT	2,738	3,900	92
	Group 43	Add RH + CB + IWS + AB	1	229 *	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92

TABLE C-6c. CHARACTERIZATION OF MODEL PLANTS, OPTION 1B, 25% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribution of reported values from other facilities.

** Reported Ratio is equal to the number of total units located at a site divided by the number of units for which information was reported.

Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units.

nr = not reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 1	L	None	1	$0K	$0K	$0K
	Group 3	S	Add FF	1	$2,141K	$355K	$596K
		L		1	$5,072K	$754K	$1,325K
	Group 4	S	Add CI,FF	12	$2,611K	$718K	$1,022K
	Group 5	S	Add Q,CI,FF	4	$3,144K	$806K	$1,180K
		L		4	$6,570K	$1,645K	$2,414K
	Group 6	S	Add IWS	1	$2,390K	$379K	$768K
	Group 7	S	DOM FF mod	1	$125K	$41K	$46K
	Group 8	S	Add CI,FF,PT	1	$3,512K	$1,048K	$1,498K
	Group 9	L	Add PT	3	$1,934K	$684K	$999K
	Group 10	L	DOM ESP small	1	$912K	$155K	$275K
	Group 16	S	Add Q, CI, FF, PT	4	$4,045K	$1,136K	$1,656K
		L		2	$8,505K	$2,329K	$3,413K
	Group 17	S	Add Q	1	$533K	$88K	$158K
		L		1	$912K	$155K	$275K
	Group 18	S	Add Q, FF	2	$2,673K	$443K	$754K
		L		1	$5,984K	$909K	$1,601K
	Group 19	L	Add Q, IWS	2	$5,322K	$902K	$1,740K
	Group 20	S	Moderate DOM on existing ESP, Add Q	1	$2,290K	$237K	$538K
	Group 21	S	Moderate DOM on existing FF, Add Q	2	$658K	$129K	$203K
LWAKS	Group 1	M	None	4	$0K	$0K	$0K
	Group 2	M	Add FF	4	$661K	$161K	$236K
	Group 3	M	Add CI, FF	2	$1,074K	$350K	$480K
	Group 5	M (hi HCl)	Add ST	1	$1,229K	$330K	$530K
	Group 6	M (hi HCl)	Add IWS	2	$1,016K	$682K	$847K
Incinerators	Group 1	M	None	1	$0K	$0K	$0K
	Group 2	S	Add PT	1	$57K	$90K	$99K
		L		1	$445K	$195K	$267K
	Group 3	M	DOM WS mod, Add RH,CI/CB,FF	3	$1,004K	$405K	$541K
		L		1	$1,876K	$712K	$968K
	Group 4	S	Add IWS	4	$215K	$97K	$132K
		M		1	$680K	$144K	$254K
		L		2	$1,331K	$228K	$445K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators (cont)							
	Group 6	S	Add FF	1	$82K	$89K	$98K
		M		5	$295K	$121K	$154K
		L		2	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
	Group 8	M	Add CI/CB	1	$397K	$147K	$199K
		L		3	$425K	$224K	$280K
	Group 9	S	Add RH, CI/CB, FF	2	$575K	$241K	$315K
		M		7	$932K	$391K	$508K
		L		2	$1,681K	$672K	$876K
	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
	Group 11	M	DOM FF mod, Add PT	1	$223K	$130K	$164K
	Group 13	S	Add PT, RH, CI/CB, FF	5	$632K	$331K	$414K
		M		2	$1,137K	$515K	$665K
		L		3	$2,126K	$866K	$1,143K
	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	2	$620K	$278K	$364K
	Group 16	S	DOM VS mod, Add PT	1	$68K	$96K	$109K
		M		3	$250K	$159K	$205K
	Group 17	M	DOM ESP mod	1	$535K	$50K	$120K
	Group 18	M	DOM WS small	1	$40K	$13K	$20K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K
		M		1	$879K	$319K	$441K
	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
	Group 24	M	DOM combustor, Add PT,RH,CI/CB,FF	2	$1,291K	$515K	$690K
	Group 25	M	Add AB,RH,CI/CB,FF	1	$1,349K	$924K	$1,096K
		L		1	$2,223K	$1,947K	$2,223K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$178K	$267K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators	Group 29	M	DOM IWS small, Add RH,CI/CB,FF	1	$972K	$403K	$528K
(cont)	Group 32	S	Add RH, CB/CI	1	$493K	$152K	$216K
	Group 34	S	Add CI/CB, PT	1	$398K	$181K	$235K
	Group 35	M	Moderate DOM on Combustor, Add Q, PT	1	$637K	$172K	$267K
	Group 36	L	Add CI/CB, IWS	1	$1,755K	$452K	$725K
	Group 37	S	Moderate DOM on existng VS, Add RH, CI/CB, PT	1	$561K	$248K	$326K
	Group 38	S	Moderate DOM on Combustor, Add CI/CB, IWS	1	$672K	$188K	$287K
	Group 39	M	Add RH, CI/CB, FF, PT, AB	3	$1,554K	$1,048K	$1,253K
		L		1	$2,669K	$2,142K	$2,490K
	Group 42	S	Add RH, CI/CB, IWS	1	$708K	$249K	$348K
	Group 43	S	Add RH, CI/CB, IWS, AB	1	$973K	$441K	$576K

TABLE C-7a. REQUIRED REDUCTION TO MEET OPTION 1C WITH 0% FEED REDUCTION

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
Floor Levels		5.00		0.03		60.00		80.00		60.00		1.00		20.00		na		0.20	
200	CK	50.32	50	-118.49	0	11.79	12	79.20	79	-259.90	0	-9939.48	0	nr	50	na	na	nr	25
201	CK	-88.50	0	-130.41	0	-19.45	0	76.95	77	-207.84	0	-19113.07	0	nr	0	na	na	nr	75
202	CK	75.67	76	-25.37	0	47.29	47	-171.43	0	-266.57	0	-275.34	0	nr	25	na	na	nr	0
203	CK	16.29	16	-119.51	0	89.11	89	-189.88	0	46.51	47	-31.41	0	-5.26	0	na	na	96.43	96
204	CK	71.34	71	0.26	0	87.34	87	-1160.17	0	-100402.56	0	-9353.25	0	nr	0	na	na	64.91	65
205	CK	83.07	83	35.22	35	95.82	96	-302.25	0	-284.42	0	-388.22	0	10.95	11	na	na	-103.05	0
206	CK	69.25	69	-25.08	0	77.89	78	-833.89	0	25.32	25	-2331.38	0	-65.62	0	na	na	82.61	83
207	CK	70.08	70	-31.99	0	83.38	83	-314.49	0	-1282.53	0	-241.01	0	nr	0	na	na	-1150.00	0
208	CK	75.74	76	-108.75	0	30.45	30	-569.85	0	-1415.29	0	-329.31	0	nr	0	na	na	-4238.39	0
228	CK	nr	75	nr	0	nr	75	nr	0	nr	0	nr	0	-18.34	0	na	na	2.44	0
300	CK	nr	75	58.04	58	96.85	97	8.66	9	-80.21	0	-241.59	0	-4.58	0	na	na	98.33	98
301	CK	95.68	96	23.80	24	-558.71	0	-376.85	0	-27041.50	0	-464.49	0	-65.70	0	na	na	nr	75
302	CK	nr	50	-44.64	0	93.18	93	-292.55	0	-518.37	0	-113.63	0	nr	0	na	na	nr	75
303	CK	82.82	83	-30.43	0	-137.38	0	-574.52	0	-1488.16	0	-912.24	0	66.67	67	na	na	nr	0
304	CK	88.94	89	48.89	49	90.27	90	-98.82	0	-17386.05	0	-23156.06	0	nr	0	na	na	88.89	89
305	CK	53.45	53	58.80	59	94.43	94	-169.43	0	42.41	42	-310.12	0	10.42	10	na	na	99.65	99
306	CK	99.86	100	-99.06	0	-270.97	0	-504.69	0	-2784.36	0	-494.23	0	nr	0	na	na	-266.30	0
308	CK	nr	75	-36.36	0	33.16	33	-968.07	0	-1230.02	0	-30.46	0	nr	25	na	na	nr	75
309	CK	87.05	87	-25.78	0	89.71	90	-1574.72	0	-26.92	0	-796.72	0	-32.45	0	na	na	99.62	99
315	CK	nr	75	-2740.15	0	-307.71	0	-615.13	0	-2884.12	0	-4051.35	0	nr	50	na	na	nr	75
316	CK	nr	50	-154.44	0	-963.78	0	-1053.42	0	-129.09	0	-10.72	0	-233.33	0	na	na	nr	75
317	CK	nr	75	-1230.87	0	-108.38	0	-241.51	0	-1254.51	0	-1965.79	0	64.17	64	na	na	83.87	84
318	CK	nr	75	-225.02	0	53.66	54	-332.38	0	-26.00	0	-1105.30	0	-207.69	0	na	na	nr	75
319	CK	90.96	91	20.00	20	90.38	90	-25.95	0	-0.72	0	90.21	90	68.94	69	na	na	96.42	96
320	CK	nr	75	-899.98	0	-2606.88	0	-1709.29	0	-2026.92	0	51.83	52	80.10	80	na	na	-136.97	0
321	CK	nr	50	71.43	71	-802.93	0	-1294.44	0	-1248.40	0	60.91	61	nr	50	na	na	nr	0
322	CK	nr	0	-130.76	0	59.73	60	-208.71	0	-178.41	0	-390.28	0	-170.27	0	na	na	92.54	93
323	CK	nr	75	-7.14	0	93.06	93	0.42	0	27.48	27	-1080.36	0	-90.48	0	na	na	94.44	94
335	CK	87.59	88	-48.08	0	91.37	91	-647.06	0	45.86	46	-148.24	0	-12.55	0	na	na	99.20	99
401	CK	91.75	92	42.41	42	93.35	93	19.03	19	-179.24	0	-76.83	0	61.33	61	na	na	48.72	49
402	CK	84.44	84	43.93	44	98.23	98	24.87	25	-325.73	0	71.36	71	33.05	33	na	na	nr	0
403	CK	99.43	99	13.39	13	-100.61	0	-143.20	0	-10132.30	0	-4529.68	0	-13.19	0	na	na	81.31	81
404	CK	-17.57	0	-528.18	0	-7.97	0	37.49	37	14.29	14	33.74	34	-25.96	0	na	na	77.88	78
405	CK	75.23	75	-36.56	0	93.69	94	72.09	72	-2468.19	0	-173.45	0	6.65	7	na	na	nr	50

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
Floor Levels		5.00		0.015		60.00		80.00		1300.00		2.50		20.00		100.00		0.20	
223	LWAK	83.87	84	-479.94	0	-962.76	0	-124.69	0	39.86	40	-299.36	0	nr	0	nr	0	nr	0
224	LWAK	65.09	65	-427.20	0	-1408.79	0	-331.05	0	-135054.67	0	-478.26	0	nr	0	nr	75	nr	0
225	LWAK	-6.84	0	-4045.81	0	-6064.30	0	-692.88	0	-115.61	0	-1685.71	0	nr	0	nr	0	nr	0
226	LWAK	nr	50	-1385.13	0	nr	0	nr	0	nr	0	nr	0	nr	0	nr	75	nr	0
227	LWAK	70.07	70	-926.73	0	-193.58	0	-297.03	0	14.39	14	-481.55	0	-60.00	0	92.51	93	nr	0
307	LWAK	98.98	99	-38.09	0	-946.18	0	-25.21	0	-5817.72	0	-325.01	0	nr	0	-120.61	0	nr	0
310	LWAK	63.85	64	6.25	6	82.19	82	-33.99	0	-8.91	0	-13.57	0	nr	0	nr	0	nr	0
311	LWAK	66.92	67	-150.00	0	86.54	87	-121.23	0	-6.29	0	66.08	66	nr	0	nr	75	nr	0
312	LWAK	40.68	41	-114.28	0	85.87	86	-126.36	0	-0.73	0	69.18	69	nr	0	nr	0	nr	0
313	LWAK	-1248.51	0	-150.00	0	86.65	87	72.82	73	15.04	15	-304.63	0	nr	0	nr	75	nr	0
314	LWAK	80.16	80	42.18	42	96.37	96	60.57	61	-58.52	0	-28.87	0	nr	0	nr	0	nr	0
336	LWAK	nr	75	-84.34	0	nr	75	nr	0	nr	0	nr	0	nr	0	nr	75	-418.13	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
Floor Levels		5.00		0.015		60.00		80.00		25.00		1.00		20.00		100.00		0.20	0
209	INC	-56.03	0	-223.01	0	-650.89	0	-254.98	0	-135.39	0	95.33	95	nr	25	63.16	63	nr	75
210	INC	nr	0	-192.21	0	nr	50	nr	75	25.55	26	-217.40	0	-415.91	0	-27385.21	0	nr	25
211	INC	nr	50	-44.23	0	nr	75	nr	50	-7.85	0	87.71	88	-760.67	0	-2002.04	0	nr	0
212	INC	nr	75	36.13	36	nr	0	nr	0	71.26	71	-491.78	0	-478.16	0	-1934.62	0	nr	0
214	INC	97.48	97	35.45	35	91.85	92	47.30	47	-1644.19	0	nr	25	-1521.60	0	-561.99	0	-237.84	0
216	INC	75.83	76	50.15	50	92.40	92	38.76	39	-165.50	0	nr	0	nr	0	-869.84	0	nr	0
221	INC	40.24	40	-5.42	0	-46.48	0	-31.44	0	-104.71	0	83.63	84	-464.12	0	-552.36	0	52.38	52
222	INC	nr	50	-597.56	0	-2035.46	0	nr	0	-1667.15	0	-167.01	0	-6003.91	0	-167.49	0	82.76	83
229	INC	nr	75	21.26	21	-32.26	0	-33.89	0	71.33	71	nr	75	nr	0	nr	75	96.38	96
324	INC	nr	50	-38.89	0	90.69	91	27.68	28	75.75	76	nr	0	nr	0	-219.83	0	nr	75
325	INC	82.70	83	-361.53	0	32.20	32	-152.27	0	-367.54	0	nr	75	-2263.92	0	-867.74	0	nr	0
327	INC	99.42	99	-1094.70	0	-192.11	0	-200.94	0	-670.26	0	-453.59	0	-284.23	0	-1096.05	0	98.75	99
329	INC	nr	75	50.74	51	nr	75	nr	75	-256.06	0	-181.09	0	-708.58	0	-935.58	0	nr	50
330	INC	4.09	4	64.37	64	82.35	82	-49.79	0	50.72	51	nr	0	nr	0	nr	0	99.25	99
331	INC	88.98	89	-87.50	0	98.38	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-191.97	0
332	INC	nr	25	87.30	87	nr	0	nr	0	34.85	35	94.78	95	nr	0	80.00	80	nr	75
333	INC	nr	0	-1053.82	0	nr	0	nr	50	56.80	57	-76.65	0	nr	0	-2136.89	0	nr	0
334	INC	16.42	16	72.94	73	98.68	99	84.07	84	-57.03	0	nr	0	-885.83	0	-34.96	0	89.47	89
337	INC	96.95	97	-6247.01	0	27.17	27	64.19	64	-7078.53	0	80.05	80	-514.48	0	-13061.51	0	nr	0
338	INC	91.74	92	-1099.99	0	-102.30	0	-5.63	0	-16691.60	0	-1938.12	0	-994.39	0	-4878.93	0	nr	0
339	INC	nr	75	-414.21	0	nr	50	nr	0	-43.75	0	-7449.86	0	-1513.97	0	nr	0	nr	0
340	INC	51.48	51	-130.06	0	-588.07	0	-597.04	0	-49.86	0	nr	75	-1138.46	0	-238.04	0	nr	75
341	INC	-435.90	0	-916.94	0	-333.83	0	-944.00	0	-1595.10	0	nr	0	nr	0	-73.46	0	nr	50
342	INC	25.42	25	-316.97	0	-210.32	0	-3408.50	0	-11883.28	0	nr	75	nr	0	nr	0	nr	0
344	INC	nr	50	-826.62	0	-271.78	0	-16.98	0	-2652.25	0	nr	0	-1015.00	0	-519.62	0	nr	25
346	INC	-1698.05	0	-1067.30	0	33.47	33	-553.14	0	-3233.16	0	nr	75	nr	0	-255.68	0	-63.93	0
347	INC	3.20	3	-115.39	0	-468.68	0	-443.92	0	-1578.83	0	nr	0	nr	0	nr	0	-936.27	0
348	INC	nr	75	-1399.99	0	-593.53	0	-2435.15	0	-44841.42	0	-100.54	0	nr	0	-1104.17	0	nr	75
349	INC	nr	0	-690.51	0	-60.84	0	nr	75	nr	50	nr	75	nr	0	-1053.22	0	nr	0
350	INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-2870.43	0	nr	0
351	INC	nr	50	-68.16	0	nr	0	-645.40	0	nr	0	nr	75	nr	0	-35.23	0	nr	50
353	INC	-23.87	0	30.81	31	40.23	40	32.99	33	nr	0	nr	0	nr	0	-529.10	0	-57.48	0
354	INC	-498.43	0	-141.54	0	-2429.72	0	-684.78	0	-4154.36	0	14.29	14	nr	0	-3281.50	0	-2624.80	0
356	INC	nr	75	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	0	-2601.64	0	nr	75
357	INC	nr	75	38.53	39	nr	75	nr	0	-268.06	0	nr	0	nr	0	-808.60	0	nr	0
358	INC	nr	50	52.79	53	nr	50	nr	0	-728.93	0	nr	75	nr	0	-6563.08	0	nr	0
359	INC	nr	75	19.91	20	88.43	88	99.85	100	-211.26	0	nr	0	nr	0	-0.58	0	nr	0
400	INC	68.86	69	-152.37	0	91.99	92	27.87	28	nr	0	nr	75	nr	0	nr	0	nr	50
500	INC	-67.73	0	-767.27	0	-2012.85	0	-2249.06	0	-80.57	0	88.95	89	nr	0	nr	0	-430.50	0
502	INC	nr	50	57.14	57	95.25	95	-5.12	0	-19.38	0	nr	0	nr	0	nr	0	-796.86	0
503	INC	67.77	68	43.40	43	92.20	92	81.34	81	nr	0	nr	75	nr	0	nr	50	nr	75
504	INC	99.73	100	16.67	17	-54.59	0	46.56	47	-446.47	0	nr	0	nr	0	nr	0	nr	0
600	INC	nr	25	-100.00	0	nr	0	nr	50	-2035.24	0	nr	75	nr	0	nr	0	nr	0
700	INC	-11.67	0	65.40	65	99.77	100	88.65	89	-89.72	0	-726.66	0	nr	0	nr	0	nr	0
701	INC	nr	75	65.22	65	nr	0	nr	75	-132.29	0	nr	0	-2497.40	0	nr	0	nr	50
702	INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr	75
703	INC	nr	75	-400.00	0	nr	0	nr	0	92.28	92	nr	0	-5235.72	0	-8580.92	0	nr	0
704	INC	nr	25	23.08	23	nr	0	nr	0	83.78	84	nr	75	nr	0	-2184.48	0	nr	0
705	INC	61.00	61	43.74	44	64.66	65	32.84	33	-154.15	0	nr	0	nr	0	-3364.34	0	nr	75
706	INC	nr	75	64.87	65	nr	0	nr	0	-4633.70	0	nr	75	-285.81	0	-151.49	0	-895.02	0
707	INC	nr	0	62.86	63	nr	75	nr	0	-394.52	0	nr	0	nr	0	98.57	99	nr	50
708	INC	nr	0	39.80	40	nr	0	nr	50	-3334.37	0	nr	75	nr	0	-1047.43	0	nr	75
709	INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-1464.15	0	-1188.66	0	nr	0
710	INC	nr	50	45.78	46	nr	75	nr	0	72.29	72	99.33	99	-57.89	0	-240.91	0	nr	0
711	INC	nr	25	47.67	48	nr	0	nr	0	-2880.51	0	nr	75	nr	0	-591.02	0	nr	75

TABLE C-7a. REQUIRED REDUCTION TO MEET OPTION 1C WITH 0% FEED REDUCTION

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
712	INC	nr	0	30.97	31	-2569.12	0	-241.79	0	nr	0	nr	0	nr	0	nr	0	nr	0
713	INC	nr	75	77.78	78	nr	50	nr	0	4.33	4	nr	75	nr	0	-4897.31	0	nr	75
714	INC	nr	0	18.48	18	nr	75	nr	0	50.00	50	nr	0	nr	0	-490.50	0	nr	50
725	INC	-210.22	0	24.62	25	-52.46	0	-69.64	0	-361.62	0	98.28	98	-1042.86	0	-2320.90	0	3.85	4
726	INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	-36.95	0	-394.32	0	nr	0
727	INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	89.16	89	95.49	95	nr	0
728	INC	nr	0	65.04	65	nr	0	nr	0	-6322.20	0	nr	75	nr	0	nr	0	nr	75
784	INC	nr	0	63.41	63	nr	75	nr	50	97.23	97	nr	0	nr	0	-2646.55	0	nr	0
805	INC	nr	0	73.50	73	nr	0	nr	0	nr	50	80.29	80	-316.46	0	70.78	71	nr	75
806	INC	96.83	97	66.47	66	89.06	89	-1025.54	0	43.50	44	nr	75	-31.36	0	49.17	49	nr	0
807	INC	56.23	56	39.43	39	66.18	66	53.04	53	-1127.50	0	-237.27	0	-795.81	0	-1762.35	0	42.53	43
808	INC	nr	25	-38.32	0	nr	75	nr	50	-5888.96	0	nr	0	nr	0	-96.76	0	-29.87	0
809	INC	nr	50	nr	0	99.41	99	97.87	98	nr	0	nr	75	-354.42	0	91.87	92	nr	75
810	INC	nr	75	nr	0	95.89	96	86.54	87	nr	0	nr	0	nr	0	-543.78	0	nr	0
824	INC	-603.10	0	-134.37	0	-25.66	0	29.62	30	-965.34	0	nr	75	nr	0	-1074.27	0	nr	0
825	INC	nr	50	80.00	80	nr	0	nr	0	-966.47	0	nr	0	nr	0	nr	75	nr	50
902	INC	89.29	89	28.23	28	-148.65	0	-725.08	0	-451.17	0	nr	0	-354.81	0	-153.83	0	-3167.97	0
904	INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	-159.94	0	-19763.85	0	nr	0
905	INC	nr	0	nr	0	99.77	100	56.79	57	nr	0	nr	0	nr	0	-172.96	0	nr	25
906	INC	nr	75	77.68	78	nr	50	nr	75	81.73	82	nr	25	-891.12	0	-1559.85	0	nr	75
914	INC	nr	0	-257.14	0	nr	0	nr	50	nr	75	93.78	94	nr	75	-2677.78	0	95.44	95
915	INC	nr	75	73.45	73	95.11	95	88.18	88	nr	50	nr	0	6.98	7	84.49	84	52.94	53

TABLE C-7b. MODEL GROUP SELECTION FOR OPTION 1C WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 1C with 0% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	D/F		
200	CK	FF	34	0	0	76	0	0	0	na	25	5	Add WQ + CI + FF
201	CK	FF	0	0	0	73	0	0	0	na	75	18	Add WQ + FF
202	CK	FF	68	0	34	0	0	0	0	na	0	4	Add CI + FF
203	CK	ESP	0	0	86	0	31	0	0	na	96	16	Add WQ + CI + FF + PT
204	CK	ESP	62	0	84	0	0	0	0	na	65	5	Add WQ + CI + FF
205	CK	ESP	77	35	95	0	0	0	0	na	0	4	Add CI + FF
206	CK	ESP	59	0	72	0	3	0	0	na	83	16	Add WQ + CI + FF + PT
207	CK	MC/ESP	60	0	79	0	0	0	0	na	0	4	Add CI + FF
208	CK	ESP	68	0	12	0	0	0	0	na	0	4	Add CI + FF
228	CK	ESP	75	0	75	0	0	0	0	na	0	5	Add WQ + CI + FF
300	CK	ESP	75	58	96	0	0	0	0	na	98	5	Add WQ + CI + FF
301	CK	FF	94	24	0	0	0	0	0	na	75	4	Add CI + FF
302	CK	ESP	0	0	91	0	0	0	0	na	75	4	Add CI + FF
303	CK	QC/FF	77	0	0	0	0	0	0	na	0	4	Add CI + FF
304	CK	ESP	85	49	88	0	0	0	0	na	89	5	Add WQ + CI + FF
305	CK	ESP	38	59	93	0	25	0	0	na	99	16	Add WQ + CI + FF + PT
306	CK	MC/FF	100	0	0	0	0	0	0	na	0	5	Add WQ + CI + FF
308	CK	ESP	75	0	16	0	0	0	0	na	75	4	Add CI + FF
309	CK	MC/ESP	83	0	87	0	0	0	0	na	99	5	Add WQ + CI + FF
315	CK	FF	75	0	0	0	0	0	0	na	75	4	Add CI + FF
316	CK	FF	50	0	0	0	0	0	0	na	75	5	Add WQ + CI + FF
317	CK	FF	75	0	0	0	0	0	0	na	84	5	Add WQ + CI + FF
318	CK	ESP	75	0	42	0	0	0	0	na	75	4	Add CI + FF
319	CK	ESP	88	20	88	0	0	87	0	na	96	16	Add WQ + CI + FF + PT
320	CK	FF	50	0	0	0	0	38	0	na	0	8	Add CI + FF + PT
321	CK	ESP	50	71	0	0	0	49	0	na	0	8	Add CI + FF + PT
322	CK	ESP	0	0	49	0	0	0	0	na	93	20	Moderate DOM on ESP + Add WQ
323	CK	ESP	50	0	91	0	6	0	0	na	94	16	Add WQ + CI + FF + PT
335	CK	ESP	83	0	89	0	30	0	0	na	99	16	Add WQ + CI + FF + PT
401	CK	ESP	89	42	92	6	0	0	0	na	49	4	Add CI + FF
402	CK	ESP	79	44	98	13	0	63	0	na	0	8	Add CI + FF + PT
403	CK	ESP	99	13	0	0	0	0	0	na	81	5	Add WQ + CI + FF
404	CK	ESP	0	0	0	27	0	14	0	na	78	19	Add WQ + IWS
405	CK	ESP	67	0	92	68	0	0	0	na	50	4	Add CI + FF

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 1C with 0% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	D/F		
223	LWAK	FF	82	0	0	0	20	0	0	0	0	4	Add CI + FF + ST
224	LWAK	FF	61	0	0	0	0	0	0	0	0	3	Add CI + FF
225	LWAK	FF	0	0	0	0	0	0	0	0	0	1	None
226	LWAK	FF	50	0	0	0	0	0	0	0	0	3	Add CI + FF
227	LWAK	FF	67	0	0	0	0	0	0	0	0	4	Add CI + FF + ST
307	LWAK	FF/VS	99	0	0	0	0	0	0	0	0	3	Add CI + FF
310	LWAK	FF	60	6	76	0	0	0	0	0	0	3	Add CI + FF
311	LWAK	FF	63	0	82	0	0	55	0	0	0	4	Add CI + FF + ST
312	LWAK	FF	34	0	81	0	0	59	0	0	0	4	Add CI + FF + ST
313	LWAK	FF	0	0	82	73	0	0	0	0	0	6	Add IWS
314	LWAK	FF	78	42	95	61	0	0	0	0	0	3	Add CI + FF
336	LWAK	FF	75	0	75	0	0	0	0	0	0	3	Add CI + FF

TABLE C-7b. MODEL GROUP SELECTION FOR OPTION 1C WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 1C with 0% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	D/F		
209	INC	WHB,FF/VQ/PT/DM	0	0	0	0	0	94	25	63	75	35	Moderate DOM on combustor + Add WQ + PT
210	INC	FF/S	75	0	50	75	1	0	0	0	25	3	Moderate DOM on existing S + Add RH + CI + FF
211	INC	SS/PT/VS	50	0	75	50	0	84	0	0	0	13	Add RH + CI + FF + PT
212	INC	FF/S	0	36	0	0	62	0	0	0	0	7	Moderate DOM on existing FF & WS
214	INC	IWS	97	35	89	47	0	25	0	0	0	29	Small DOM on existing IWS + Add RH + CI+FF
216	INC	HES/WS	68	50	90	39	0	0	0	0	0	9	Add RH + CI + FF
221	INC	PT	20	0	0	0	0	78	0	0	52	13	Add RH + CI + FF + PT
222	INC	WHB/SD/ESP/Q/PBS	50	0	0	0	0	0	0	0	83	8	Add CI
229	INC	WHB/ACS/HCS/CS	75	21	0	0	62	75	0	75	96	43	Add AB + RH + CB + IWS
324	INC	?	50	0	88	28	68	0	0	0	75	13	Add RH + CI + FF + PT
325	INC	SD/FF/WS/IWS	77	0	10	0	0	75	0	0	0	15	Moderate DOM on existing FF + PT + CI
327	INC	SD/FF/WS/ESP	99	0	0	0	0	0	0	0	99	8	Add CI
329	INC	PT/IWS	75	51	75	75	0	0	0	0	50	9	Add RH + CI + FF
330	INC	QT/WS/DM	0	64	76	0	34	0	0	0	99	3	Moderate DOM on existing WS + Add RH + CI + FF
331	INC	PT/IWS	85	0	98	0	75	75	0	0	0	13	Add RH + CI + FF + PT
332	INC	WS	25	87	0	0	13	93	0	80	75	39	Add AB + RH + CI + FF + PT
333	INC	SD/FF	0	0	0	50	42	0	0	0	0	14	Moderate DOM on existing SD & FF
334	INC	WS/ESP/PT	0	73	98	84	0	0	0	0	89	9	Add RH + CI + FF
337	INC	WHB/DA/DI/FF	96	0	3	64	0	73	0	0	0	15	Moderate DOM on existing FF + Add CI + PT
338	INC	QC/FF/SS/C/HES/DM	89	0	0	0	0	0	0	0	0	8	Add CI
339	INC	AT/PT/RJS/ESP	75	0	25	0	0	0	0	0	0	28	Moderate DOM on ESP + RH + CB
340	INC	WHB/ESP/WS	35	0	0	0	0	50	0	0	75	20	Add WQ + CI + PT
341	INC	DA/DI/FF/HEPA/CA	0	0	0	0	0	0	0	0	50	8	Add CI
342	INC	WHB/QC/S/VS/DM	1	0	0	0	0	75	0	0	0	40	Add RH + CB + PT
344	INC	QC/VS/PT/DM	50	0	0	0	0	0	0	0	25	9	Add RH + CI + FF
346	INC	C/QC/VS/PT/DM	0	0	11	0	0	75	0	0	0	16	Moderate DOM on existing VS + Add PT
347	INC	C/QC/VS/S/DM	0	0	0	0	0	0	0	0	0	9	Add RH + CI + FF
348	INC	QC/AS/IWS	75	0	0	0	0	0	0	0	75	32	Add RH + CB
349	INC	QC/FF/QC/PT	0	0	0	75	50	75	0	0	0	4	Add IWS
350	INC	WHB/HE/FF	0	0	75	50	0	0	0	0	0	6	Add FF
351	INC	GC/C/FF	50	0	0	0	0	50	0	0	50	34	Add CI + PT
353	INC	QC/VS/DM/ESP	0	31	20	33	0	0	0	0	0	17	Moderate DOM on existing ESP
354	INC	QC/AS/VS/DM/IWS	0	0	0	0	0	0	0	0	0	18	Small DOM on existing WS
356	INC	QC/AS/FN/DM	75	52	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
357	INC	QC/VS/PT/IWS	75	39	75	0	0	0	0	0	0	9	Add RH + CI + FF
358	INC	QC/VS/C/CT/S/DM	50	53	50	0	0	75	0	0	0	13	Add RH + CI + FF + PT
359	INC	WHB/FF/S	75	20	85	100	0	0	0	0	0	9	Add RH + CI + FF
400	INC	SD/FF	58	0	89	28	0	75	0	0	50	36	Add IWS + CI
500	INC	QC/VS/KOV/DM	0	0	0	0	0	85	0	0	0	2	Add PT
502	INC	WHB/QC/PBC/VS/ES	50	57	94	0	0	0	0	0	0	9	Add RH + CI + FF
503	INC	HTHE/LTHE/FF	57	43	90	81	0	75	0	50	75	38	Moderate DOM on combustor + Add IWS + CI
504	INC	VS/C	100	17	0	47	0	0	0	0	0	9	Add RH + CI + FF
600	INC	WHB/QC/PT/IWS	0	0	0	50	0	75	0	0	0	13	Add RH + CI + FF + PT
700	INC	SD/RJS/VS/WS	0	65	100	89	0	0	0	0	0	6	Add FF
701	INC	VS/PT	75	65	0	75	0	0	0	0	50	9	Add RH + CI + FF
702	INC	QT/S/C	0	82	75	0	0	75	0	0	75	13	Add RH + CI + FF + PT
703	INC	WHB	75	0	0	0	90	0	0	0	0	20	Add WQ + CB + PT
704	INC	NONE	0	23	0	0	78	50	0	0	0	41	Add WQ + CI + FF + PT

TABLE C-7b. MODEL GROUP SELECTION FOR OPTION 1C WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 1C with 0% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	D/F		
705	INC	QT/VS/ESP/PT	48	44	53	33	0	0	0	0	75	9	Add RH + CI + FF
706	INC	QT/HS/C	75	65	0	0	0	75	0	0	0	13	Add RH + CI + FF + PT
707	INC	QT/WS	0	63	75	0	0	0	0	99	50	25	Add AB + RH + CI + FF
708	INC	WS/ESP	0	40	0	50	0	75	0	0	75	13	Add RH + CI + FF + PT
709	INC	NONE	50	63	0	0	0	0	0	0	0	10	Add WQ + CB + FF
710	INC	QT/OS/C/S	50	46	75	0	63	99	0	0	0	13	Add RH + CI + FF + PT
711	INC	C/VS/AS	0	48	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
712	INC	NONE	0	31	0	0	0	0	0	0	0	6	Add FF
713	INC	VS/PT	75	78	50	0	0	75	0	0	75	13	Add RH + CI + FF + PT
714	INC	WS	0	18	75	0	33	0	0	0	50	3	Moderate DOM on existing WS + Add RH + CI + FF
725	INC	WS/QT	0	25	0	0	0	98	0	0	4	13	Add RH + CI + FF + PT
726	INC	QC/CS/DM/VS	75	0	75	75	0	75	0	0	0	13	Add RH + CI + FF + PT
727	INC	GC/C/FF	0	82	75	50	0	0	89	95	0	21	Add FF + AB
728	INC	QT/PT/VS	0	65	0	0	0	75	0	0	75	37	Moderate DOM on existing VS + Add RH + CB + PT
784	INC	NONE	0	63	75	50	96	0	0	0	0	4	Add IWS
805	INC	QT/QS/VS/ES/PBS	0	73	0	0	50	74	0	71	75	24	Moderate DOM on Combustor +Add RH + CI + PT + FF
806	INC	C/VS	96	66	85	0	25	75	0	49	0	24	Moderate DOM on Combustor +Add RH + CI + PT + FF
807	INC	C/WHB/VQ/PT/HS/DM	42	39	55	53	0	0	0	0	43	9	Add RH + CI + FF
808	INC	QT/PBS/ESP	0	0	75	50	0	0	0	0	0	9	Add RH + CI + FF
809	INC	VS	50	0	99	98	0	75	0	92	75	39	Add AB + RH + CI + FF + PT
810	INC	Q/VS/PBS	75	0	95	87	0	0	0	0	0	9	Add RH + CI + FF
824	INC	QT/VS/PT/DM	0	0	0	30	0	75	0	0	0	16	Moderate DOM on existing VS + Add PT
825	INC	CCS/QC/ESP	50	80	0	0	0	0	0	75	50	25	Add AB + RH + CI + FF
902	INC	QT/VS/PT	86	28	0	0	0	0	0	0	0	9	Add RH + CI + FF
904	INC	?	0	0	75	0	0	0	0	0	0	6	Add FF
905	INC	QT/VS/AS/CS	0	0	100	57	0	0	0	0	25	9	Add RH + CI + FF
906	INC	QT/PT	75	78	25	75	76	50	0	0	75	42	Add RH + CB + IWS
914	INC	?	0	0	0	50	25	92	75	0	95	39	Add AB + RH + CI + FF + PT
915	INC	QC/VS/C	50	73	93	88	0	0	7	84	53	39	Add AB + RH + CI + FF + PT

TABLE C-7c. CHARACTERIZATION OF MODEL PLANTS, OPTION 1C, 0% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equiv. HCl Conc (ppm)
CK	Group 4	Add CI + FF	1	207	S	Keystone	MC/ESP	90,681	147,000	
			1	301	S	Essroc	FF	185,409	147,000	
			2	302 *	S	Lafarge	ESP	130,576	147,000	
			3	308 *	S	North Texas	ESP	162,599	147,000	
			1	315 *	S	Southdown	FF	102,042	147,000	
			4	318 *	S	Texas Industries	ESP	152,675	147,000	
			1	401	S	Ash Grove	ESP	172,481	147,000	
			1	405	S	Ash Grove	ESP	194,905	147,000	
			1	202	L	Heartland	FF	221,421	370,000	
			1	205	L	Holnam	ESP	253,556	370,000	
			1	208	L	Keystone	ESP	307,644	370,000	
			1	303	L	Lone Star	MC/FF	408,681	370,000	
	Group 5	Add Q + CI + FF	2	200 *	S	Giant	FF	123,584	147,000	
			1	228 *	S	Ash Grove	ESP	148,537	147,000	
			2	300	S	Essroc	ESP	164,692	147,000	
			1	403	S	Ash Grove	ESP	184,877	147,000	
			1	204	L	Holnam	ESP	693,613	370,000	
			1	304	L	Lone Star	ESP	300,367	370,000	
			1	306	L	National	MC/FF	280,868	370,000	
			1	309	L	River Cement	MC/ESP	665,839	370,000	
			1	316 *	L	Southdown	FF	nr	370,000	
			1	317	L	Southdown	FF	422,190	370,000	
	Group 8	Add CI + FF + PT	1	321 *	S	Lafarge	ESP	59,542	147,000	85
			1	402	S	Ash Grove	ESP	187,605	147,000	85
			3	320 *	L	Lafarge	FF	nr	370,000	85
	Group 16	Add Q + CI + FF + PT	2	305	S	Medusa	ESP	196,903	147,000	85
			1	323	S	Lafarge	FF	185,409	147,000	85
			1	335	S	Medusa	ESP	100,378	147,000	85
			1	203	L	Holnam	ESP	291,645	370,000	85
			1	206	L	Holnam	ESP	348,510	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
	Group 18	Add Q + FF	2	201 *	S	Giant	FF	137,945	147,000	
	Group 19	Add Q + IWS	1	404	L	Ash Grove	ESP	265,721	370,000	85
	Group 20	Moderate DOM on ESP + Add Q	1	322	S	Lafarge	ESP	112,269	147,000	
LWAK	Group 1	None	1	225	M	Solite	FF	38,270	40,500	
	Group 3	Add CI + FF	1	224	M	Solite	FF	39,049	40,500	
			1	226 *	M	Solite	FF	nr	40,500	
LWAK (cont.)			2	307	M	Norlite	FF/VS	49,050	40,500	
			1	310	M	Solite	FF	47,770	40,500	
			1	314	M	Solite	FF	36,793	40,500	
			1	336 *	M	Solite	FF	30,336	40,500	
	Group 4	Add CI + FF + ST	1	223	M (hi HCl)	Solite	FF	29,092	40,500	1,570
			1	227	M (hi HCl)	Solite	FF	38,796	40,500	1,570
			1	311	M (hi HCl)	Solite	FF	51,627	40,500	1,570
			1	312	M (hi HCl)	Solite	FF	47,698	40,500	1,570
	Group 6	Add IWS	1	313	M (hi HCl)	Solite	FF	36,793	40,500	1,570

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equiv. HCl Conc (ppm)
INC	Group 2	Add PT	1	500	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92
	Group 3	Moderate DOM on existing WS + Add RH + CI + FF	1	330	M	General Electric	QT/WS/DM	10,345	22,100	
			2	714 *	M	Olin Chemical	WS	19,185	22,100	
			1	210 *	L	LWD	FF/S	96,107	60,800	
	Group 4	Add IWS	2	349 *	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
			1	784	S	Cook Composites	NONE	nr	3,900	92
	Group 6	Add FF	1	904 *	S	First Chemical	?	5,950	3,900	
			1	350 *	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
			1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	Moderate DOM on existing FF & WS	1	212	L	LWD	FF/S	44,610	60,800	
	Group 8	Add CI	1	341 *	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	222	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
			1	327	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
			1	338	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add RH + CI + FF	1	502 *	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	
			1	905 *	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	344	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
			1	357 *	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	359 *	M	Atochem	WHB/FF/S	13,802	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	701 *	M	Eli Lilly	VS/PT	9,208	22,100	
			1	705	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	
			1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
			1	808 *	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
			1	810 *	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
INC (cont.)			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	216	L	Rollins	HES/WS	40,002	60,800	
			1	329 *	L	Dupont	PT/IWS	53,489	60,800	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	
	Group 10	Add Q + CB + FF	1	709 *	S	Cargill Chemical	NONE	3,123	3,900	

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equiv. HCl Conc (ppm)
	Group 13	Add RH + CI + FF + PT	1	356 *	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	708 *	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
			1	713 *	S	Pfizer	VS/PT	2,625	3,900	92
			1	725	S	Zeneca	WS/QT	1,489	3,900	92
			1	726 *	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	324 *	M	Allied	?	12,120	22,100	92
			1	358 *	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	702 *	M	Dupont	QT/S/C	nr	22,100	92
			1	706 *	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
			1	710 *	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	211 *	L	LWD	SS/PT/VS	43,596	60,800	92
			1	221	L	Rollins	PT	51,114	60,800	92
			1	331 *	L	Ross	PT/IWS	44,379	60,800	92
			1	600 *	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
			1	711 *	L	Chevron Chemical	C/VS/AS	52,907	60,800	92
	Group 14	Moderate DOM on existing SD & FF	1	333	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	Moderate DOM on existing FF + PT + CI	1	325 *	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92
			2	337	M	Olin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 16	Moderate DOM on existing VS + Add PT	1	824 *	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92
			1	346 *	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92
	Group 17	Moderate DOM on existing ESP	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
	Group 18	Small DOM on existing WS	1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
	Group 20	Add Q + CB + PT	1	703 *	S	Aristech	WHB	1,873	3,900	92
			1	340 *	M	Miles	WHB/ESP/WS	16,003	22,100	92
	Group 21	Add FF + AB	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
	Group 24	Moderate DOM on Combustor +Add RH + CI + PT + FF	1	805 *	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	92
			1	806	M	Amoco Oil	C/VS	20,641	22,100	92
	Group 25	Add RH + CI + FF + AB	1	825 *	M	General Electric	CCS/QC/ESP	21,363	22,100	
			1	707 *	L	Dupont	QT/WS	58,120	60,800	
INC	Group 28	Moderate DOM on ESP + RH + CB	1	339 *	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
(cont.)	Group 29	Small DOM on existing IWS + Add RH + CI+FF	1	214	M	Rollins	IWS	34,655	22,100	
	Group 32	Add RH + CB	1	348 *	S	Occidental Chemical	QC/AS/IWS	nr	3,900	
	Group 34	Add CI + PT	1	351 *	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
	Group 35	Moderate DOM on combustor + Add Q + PT	1	209 *	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 36	Add IWS + CI	1	400 *	L	Marine Shale	SD/FF	179,333	60,800	92
	Group 37	Moderate DOM on existing VS + Add RH + CB + PT	1	728 *	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
	Group 38	Moderate DOM on combustor + Add IWS + CI	1	503 *	S	Lake City Army Ammo Plant	HTHE/LTHE/FF	4,747	3,900	92
	Group 39	Add RH + CI + FF + PT + AB	1	332 *	M	Thermalkem	WS	20,208	22,100	92
			1	914 *	M	Vertac Superfund	?	25,849	22,100	92
			1	915 *	M	Eastman Kodak	QC/VS/C	nr	22,100	
			1	809 *	L	Tennessee Eastman	VS	40,524	60,800	92
	Group 40	Add RH + CB + PT	1	342 *	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92

TABLE C-7c. CHARACTERIZATION OF MODEL PLANTS, OPTION 1C, 0% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equiv. HCl Conc (ppm)
	Group 41	Add Q + CI + FF + PT	1	704 *	S	Ashland	NONE	5,011	3,900	92
	Group 42	Add RH + CB + IWS	1	906 *	S	Monsanto	QT/PT	2,738	3,900	92
	Group 43	Add RH + CB + IWS + AB	1	229 *	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribution of reported values from other facilities.

** Reported Ratio is equal to the number of total units located at a site divided by the number of units for which information was reported.

Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units.

nr = not reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 4	S	Add CI,FF	14	$2,611K	$718K	$1,022K
		L		4	$5,658K	$1,490K	$2,139K
	Group 5	S	Add Q,CI,FF	6	$3,144K	$806K	$1,180K
		L		6	$6,570K	$1,645K	$2,414K
	Group 8	S	Add CI,FF,PT	2	$3,512K	$1,048K	$1,498K
		L		3	$7,593K	$2,174K	$3,138K
	Group 16	S	Add Q, CI, FF, PT	4	$4,045K	$1,136K	$1,656K
		L		3	$8,505K	$2,329K	$3,413K
	Group 18	S	Add Q, FF	2	$2,673K	$443K	$754K
	Group 19	L	Add Q, IWS	1	$5,322K	$902K	$1,740K
	Group 20	S	Moderate DOM on existing ESP, Add Q	1	$2,290K	$237K	$538K
LWAKS	Group 1	M	None	1	$0K	$0K	$0K
	Group 3	M	Add CI, FF	7	$1,074K	$350K	$480K
	Group 4	M (hi HCl)	Add CI, FF, ST	4	$2,302K	$680K	$1,009K
	Group 6	M (hi HCl)	Add IWS	1	$1,016K	$682K	$847K
INC	Group 2	L	Add PT	1	$445K	$195K	$267K
	Group 3	M	DOM WS mod, Add RH,CI/CB,FF	3	$1,004K	$405K	$541K
		L		1	$1,876K	$712K	$968K
	Group 4	S	Add IWS	3	$215K	$97K	$132K
	Group 6	S	Add FF	1	$82K	$89K	$98K
		M		2	$295K	$121K	$154K
		L		1	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
	Group 8	M	Add CI/CB	1	$397K	$147K	$199K
		L		3	$425K	$224K	$280K
	Group 9	S	Add RH, CI/CB, FF	2	$575K	$241K	$315K
		M		11	$932K	$391K	$508K
		L		3	$1,681K	$672K	$876K
	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
	Group 13	S	Add PT, RH, CI/CB, FF	5	$632K	$331K	$414K
		M		5	$1,137K	$515K	$665K
		L		5	$2,126K	$866K	$1,143K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
INC (continued)	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	3	$620K	$278K	$364K
	Group 16	S	DOM VS mod, Add PT	1	$68K	$96K	$109K
		M		1	$250K	$159K	$205K
	Group 17	M	DOM ESP mod	1	$535K	$50K	$120K
	Group 18	M	DOM WS small	1	$40K	$13K	$20K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K
		M		1	$879K	$319K	$441K
	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
	Group 24	M	DOM combustor, Add PT,RH,CI/CB,FF	2	$1,291K	$515K	$690K
	Group 25	M	Add AB,RH,CI/CB,FF	1	$1,349K	$924K	$1,096K
		L		1	$2,223K	$1,947K	$2,223K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$178K	$267K
	Group 29	M	DOM IWS small, Add RH,CI/CB,FF	1	$972K	$403K	$528K
	Group 32	S	Add RH, CB/CI	1	$493K	$152K	$216K
	Group 34	S	Add CI/CB, PT	1	$398K	$181K	$235K
	Group 35	M	Moderate DOM on Combustor, Add Q, PT	1	$637K	$172K	$267K
	Group 36	L	Add CI/CB, IWS	1	$1,755K	$452K	$725K
	Group 37	S	Moderate DOM on existng VS, Add RH, CI/CB, PT	1	$561K	$248K	$326K
	Group 38	S	Moderate DOM on Combustor, Add CI/CB, IWS	1	$672K	$188K	$287K
	Group 39	M	Add RH, CI/CB, FF, PT, AB	3	$1,554K	$1,048K	$1,253K
		L		1	$2,669K	$2,142K	$2,490K
	Group 40	S	Add RH, CI/CB, PT	1	$550K	$242K	$316K
	Group 41	S	Add Q, CI/CB, FF, PT	1	$700K	$311K	$403K
	Group 42	S	Add RH, CI/CB, IWS	1	$708K	$249K	$348K
	Group 43	S	Add RH, CI/CB, IWS, AB	1	$973K	$441K	$576K

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
Floor Levels		5.00		0.03		60.00		80.00		60.00		1.00		20.00		na		0.20	
200	CK	33.76	34	-118.49	0	-11.18	0	75.85	76	-365.89	0	-12896.09	0	nr	0	na	na	nr	25
201	CK	-151.33	0	-130.41	0	-50.56	0	73.25	73	-298.50	0	-24771.29	0	nr	0	na	na	nr	75
202	CK	67.57	68	-25.37	0	33.56	34	-215.07	0	-374.52	0	-385.88	0	nr	0	na	na	nr	0
203	CK	-11.62	0	-119.51	0	86.27	86	-236.48	0	30.76	31	-70.10	0	-5.26	0	na	na	96.43	96
204	CK	61.79	62	0.26	0	84.04	84	-1362.77	0	-130000.40	0	-12137.22	0	nr	0	na	na	64.91	65
205	CK	77.43	77	35.22	35	94.73	95	-366.92	0	-397.63	0	-532.00	0	10.95	0	na	na	-103.05	0
206	CK	59.01	59	-25.08	0	72.13	72	-984.03	0	3.33	3	-3047.41	0	-65.62	0	na	na	82.61	83
207	CK	60.11	60	-31.99	0	79.05	79	-381.13	0	-1689.68	0	-341.44	0	nr	0	na	na	-1150.00	0
208	CK	67.65	68	-108.75	0	12.33	12	-677.54	0	-1861.54	0	-455.75	0	nr	0	na	na	-4238.39	0
228	CK	nr	75	nr	0	nr	75	nr	0	nr	0	nr	0	-18.34	0	na	na	2.44	0
300	CK	nr	75	58.04	58	96.03	96	-6.02	0	-133.28	0	-342.19	0	-4.58	0	na	na	98.33	98
301	CK	94.24	94	23.80	24	-730.24	0	-453.52	0	-35034.62	0	-630.73	0	-65.70	0	na	na	nr	75
302	CK	nr	0	-44.64	0	91.40	91	-355.66	0	-700.48	0	-176.54	0	nr	0	na	na	nr	75
303	CK	77.10	77	-30.43	0	-199.20	0	-682.96	0	-1955.87	0	-1210.34	0	66.67	0	na	na	nr	0
304	CK	85.26	85	48.89	49	87.73	88	-130.78	0	-22535.67	0	-30004.93	0	nr	0	na	na	88.89	89
305	CK	37.94	38	58.80	59	92.98	93	-212.74	0	25.45	25	-430.90	0	10.42	0	na	na	99.65	99
306	CK	99.81	100	-99.06	0	-367.57	0	-601.90	0	-3633.80	0	-669.23	0	nr	0	na	na	-266.30	0
308	CK	nr	75	-36.36	0	15.76	16	-1139.78	0	-1621.71	0	-68.87	0	nr	0	na	na	nr	75
309	CK	82.73	83	-25.78	0	87.03	87	-1843.95	0	-64.30	0	-1060.80	0	-32.45	0	na	na	99.62	99
315	CK	nr	75	-2740.15	0	-413.88	0	-730.10	0	-3762.94	0	-5273.91	0	nr	0	na	na	nr	75
316	CK	nr	50	-154.44	0	-1240.79	0	-1238.86	0	-196.56	0	-43.33	0	-233.33	0	na	na	nr	75
317	CK	nr	75	-1230.87	0	-162.65	0	-296.42	0	-1653.41	0	-2574.16	0	64.17	0	na	na	83.87	84
318	CK	nr	75	-225.02	0	41.59	42	-401.89	0	-63.11	0	-1460.26	0	-207.69	0	na	na	nr	75
319	CK	87.95	88	20.00	20	87.88	88	-46.20	0	-30.38	0	87.33	87	68.94	0	na	na	96.42	96
320	CK	nr	50	-899.98	0	-3311.75	0	-2000.16	0	-2653.29	0	37.65	38	80.10	0	na	na	-136.97	0
321	CK	nr	50	71.43	71	-1038.05	0	-1518.62	0	-1645.51	0	49.40	49	nr	0	na	na	nr	0
322	CK	nr	0	-130.76	0	49.25	49	-258.34	0	-260.41	0	-534.67	0	-170.27	0	na	na	92.54	93
323	CK	nr	50	-7.14	0	91.25	91	-15.59	0	6.12	6	-1427.98	0	-90.48	0	na	na	94.44	94
335	CK	83.45	83	-48.08	0	89.12	89	-767.16	0	29.91	30	-221.34	0	-12.55	0	na	na	99.20	99
401	CK	89.00	89	42.41	42	91.62	92	6.01	6	-261.48	0	-128.90	0	61.33	0	na	na	48.72	49
402	CK	79.26	79	43.93	44	97.77	98	12.79	13	-451.10	0	62.93	63	33.05	0	na	na	nr	0
403	CK	99.23	99	13.39	13	-152.84	0	-182.29	0	-13145.69	0	-5893.12	0	-13.19	0	na	na	81.31	81
404	CK	-56.76	0	-528.18	0	-36.09	0	27.44	27	-10.95	0	14.22	14	-25.96	0	na	na	77.88	78
405	CK	66.98	67	-36.56	0	92.04	92	67.60	68	-3224.52	0	-253.98	0	6.65	0	na	na	nr	50

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
Floor Levels		5.00		0.015		60.00		80.00		1300.00		2.50		20.00		100.00		0.20	
223	LWAK	82.09	82	-479.94	0	-1304.10	0	-124.69	0	19.94	20	-431.63	0	nr	0	nr	0	nr	0
224	LWAK	61.23	61	-427.20	0	-1893.38	0	-331.05	0	-179818.36	0	-669.78	0	nr	0	nr	0	nr	0
225	LWAK	-18.64	0	-4045.81	0	-8044.14	0	-692.88	0	-187.02	0	-2277.15	0	nr	0	nr	0	nr	0
226	LWAK	nr	50	-1385.13	0	nr	0	nr	0	nr	0	nr	0	nr	0	nr	0	nr	0
227	LWAK	66.76	67	-926.73	0	-287.87	0	-297.03	0	-13.96	0	-674.17	0	-60.00	0	92.51	0	nr	0
307	LWAK	98.87	99	-38.09	0	-1282.19	0	-25.21	0	-7777.68	0	-465.77	0	nr	0	-120.61	0	nr	0
310	LWAK	59.85	60	6.25	6	76.47	76	-33.99	0	-44.98	0	-51.18	0	nr	0	nr	0	nr	0
311	LWAK	63.26	63	-150.00	0	82.22	82	-121.23	0	-41.49	0	54.85	55	nr	0	nr	0	nr	0
312	LWAK	34.12	34	-114.28	0	81.33	81	-126.36	0	-34.10	0	58.97	59	nr	0	nr	0	nr	0
313	LWAK	-1397.52	0	-150.00	0	82.36	82	72.82	73	-13.09	0	-438.64	0	nr	0	nr	0	nr	0
314	LWAK	77.97	78	42.18	42	95.20	95	60.57	61	-111.03	0	-71.55	0	nr	0	nr	0	nr	0
336	LWAK	nr	75	-84.34	0	nr	75	nr	0	nr	0	nr	0	nr	0	nr	0	-418.13	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
Floor Levels		5.00		0.015		60.00		80.00		25.00		1.00		20.00		100.00		0.20	
209	INC	-108.04	0	-223.01	0	-901.19	0	-254.98	0	-213.86	0	93.77	94	nr	25	63.16	63	nr	75
210	INC	nr	75	-192.21	0	nr	50	nr	75	0.74	1	-323.19	0	-415.91	0	-27385.21	0	nr	25
211	INC	nr	25	-44.23	0	nr	75	nr	50	-43.80	0	83.61	84	-760.67	0	-2002.04	0	nr	0
212	INC	nr	0	36.13	36	nr	0	nr	0	61.68	62	-689.04	0	-478.16	0	-1934.62	0	nr	0
214	INC	96.64	97	35.45	35	89.14	89	47.30	47	-2225.59	0	nr	25	-1521.60	0	-561.99	0	-237.84	0
216	INC	67.77	68	50.15	50	89.87	90	38.76	39	-254.00	0	nr	0	nr	0	-869.84	0	nr	0
221	INC	20.32	20	-5.42	0	-95.30	0	-31.44	0	-172.95	0	78.17	78	-464.12	0	-552.36	0	52.38	52
222	INC	nr	50	-597.56	0	-2747.28	0	nr	0	-2256.19	0	-256.01	0	-6003.91	0	-167.49	0	82.76	83
229	INC	nr	75	21.26	21	-76.35	0	-33.89	0	61.77	62	nr	75	nr	0	nr	75	96.38	96
324	INC	nr	50	-38.89	0	87.59	88	27.68	28	67.66	68	nr	0	nr	0	-219.83	0	nr	75
325	INC	76.94	77	-361.53	0	9.60	10	-152.27	0	-523.38	0	nr	75	-2263.92	0	-867.74	0	nr	0
327	INC	99.23	99	-1094.70	0	-289.48	0	-200.94	0	-927.02	0	-638.11	0	-284.23	0	-1096.05	0	98.75	99
329	INC	nr	75	50.74	51	nr	75	nr	75	-374.75	0	-274.78	0	-708.58	0	-935.58	0	nr	50
330	INC	-27.88	0	64.37	64	76.47	76	-49.79	0	34.29	34	nr	0	nr	0	nr	0	99.25	99
331	INC	85.31	85	-87.50	0	97.84	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-191.97	0
332	INC	nr	25	87.30	87	nr	0	nr	0	13.13	13	93.04	93	nr	0	80.00	80	nr	75
333	INC	nr	0	-1053.82	0	nr	0	nr	50	42.40	42	-135.54	0	nr	0	-2136.89	0	nr	0
334	INC	-11.44	0	72.94	73	98.24	98	84.07	84	-109.38	0	nr	0	-885.83	0	-34.96	0	89.47	89
337	INC	95.93	96	-6247.01	0	2.90	3	64.19	64	-9471.38	0	73.40	73	-514.48	0	-13061.51	0	nr	0
338	INC	88.99	89	-1099.99	0	-169.74	0	-5.63	0	-22288.80	0	-2617.49	0	-994.39	0	-4878.93	0	nr	0
339	INC	nr	75	-414.21	0	nr	25	nr	0	-91.67	0	-9966.49	0	-1513.97	0	nr	0	nr	0
340	INC	35.30	35	-130.06	0	-817.42	0	-597.04	0	-99.81	0	nr	50	-1138.46	0	-238.04	0	nr	75
341	INC	-614.53	0	-916.94	0	-478.44	0	-944.00	0	-2160.14	0	nr	0	nr	0	-73.46	0	nr	50
342	INC	0.56	1	-316.97	0	-313.76	0	-3408.50	0	-15877.71	0	nr	75	nr	0	nr	0	nr	0
344	INC	nr	50	-826.62	0	-395.71	0	-16.98	0	-3569.67	0	nr	0	-1015.00	0	-519.62	0	nr	25
346	INC	-2297.40	0	-1067.30	0	11.30	11	-553.14	0	-4344.22	0	nr	75	nr	0	-255.68	0	-63.93	0
347	INC	-29.07	0	-115.39	0	-658.24	0	-443.92	0	-2138.44	0	nr	0	nr	0	nr	0	-936.27	0
348	INC	nr	75	-1399.99	0	-824.71	0	-2435.15	0	-59821.89	0	-167.39	0	nr	0	-1104.17	0	nr	75
349	INC	nr	0	-690.51	0	-114.45	0	nr	75	nr	50	nr	75	nr	0	-1053.22	0	nr	0
350	INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-2870.43	0	nr	0
351	INC	nr	50	-68.16	0	nr	0	-645.40	0	nr	0	nr	50	nr	0	-35.23	0	nr	50
353	INC	-65.16	0	30.81	31	20.30	20	32.99	33	nr	0	nr	0	nr	0	-529.10	0	-57.48	0
354	INC	-697.91	0	-141.54	0	-3272.96	0	-684.78	0	-5572.48	0	-14.29	0	nr	0	-3281.50	0	-2624.80	0
356	INC	nr	75	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	0	-2601.64	0	nr	75
357	INC	nr	75	38.53	39	nr	75	nr	0	-390.75	0	nr	0	nr	0	-808.60	0	nr	0
358	INC	nr	50	52.79	53	nr	50	nr	0	-1005.24	0	nr	75	nr	0	-6563.08	0	nr	0
359	INC	nr	75	19.91	20	84.57	85	99.85	100	-315.01	0	nr	0	nr	0	-0.58	0	nr	0
400	INC	58.48	58	-152.37	0	89.32	89	27.87	28	nr	0	nr	75	nr	0	nr	0	nr	50
500	INC	-123.65	0	-767.27	0	-2717.13	0	-2249.06	0	-140.75	0	85.27	85	nr	0	nr	0	-430.50	0
502	INC	nr	50	57.14	57	93.67	94	-5.12	0	-59.17	0	nr	0	nr	0	nr	0	-796.86	0
503	INC	57.02	57	43.40	43	89.61	90	81.34	81	nr	0	nr	75	nr	0	nr	50	nr	75
504	INC	99.64	100	16.67	17	-106.12	0	46.56	47	-628.63	0	nr	0	nr	0	nr	0	nr	0
600	INC	nr	0	-100.00	0	nr	0	nr	50	-2746.99	0	nr	75	nr	0	nr	0	nr	0
700	INC	-48.90	0	65.40	65	99.69	100	88.65	89	-152.96	0	-1002.22	0	nr	0	nr	0	nr	0
701	INC	nr	75	65.22	65	nr	0	nr	75	-209.72	0	nr	0	-2497.40	0	nr	0	nr	50
702	INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr	75
703	INC	nr	75	-400.00	0	nr	0	nr	0	89.70	90	nr	0	-5235.72	0	-8580.92	0	nr	0
704	INC	nr	0	23.08	23	nr	0	nr	0	78.37	78	nr	50	nr	0	-2184.48	0	nr	0
705	INC	47.99	48	43.74	44	52.88	53	32.84	33	-238.87	0	nr	0	nr	0	-3364.34	0	nr	75
706	INC	nr	75	64.87	65	nr	0	nr	0	-6211.60	0	nr	75	-285.81	0	-151.49	0	-895.02	0
707	INC	nr	0	62.86	63	nr	75	nr	0	-559.36	0	nr	0	nr	0	98.57	99	nr	50
708	INC	nr	0	39.80	40	nr	0	nr	50	-4479.16	0	nr	75	nr	0	-1047.43	0	nr	75
709	INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-1464.15	0	-1188.66	0	nr	0
710	INC	nr	50	45.78	46	nr	75	nr	0	63.05	63	99.10	99	-57.89	0	-240.91	0	nr	0
711	INC	nr	0	47.67	48	nr	0	nr	0	-3874.02	0	nr	75	nr	0	-591.02	0	nr	75
712	INC	nr	0	30.97	31	-3458.83	0	-241.79	0	nr	0	nr	0	nr	0	nr	0	nr	0
713	INC	nr	75	77.78	78	nr	50	nr	0	-27.56	0	nr	75	nr	0	-4897.31	0	nr	75
714	INC	nr	0	18.48	18	nr	75	nr	0	33.34	33	nr	0	nr	0	-490.50	0	nr	50
725	INC	-313.63	0	24.62	25	-103.28	0	-69.64	0	-515.50	0	97.71	98	-1042.86	0	-2320.90	0	3.85	4
726	INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	-36.95	0	-394.32	0	nr	0
727	INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	89.16	89	95.49	95	nr	0
728	INC	nr	0	65.04	65	nr	0	nr	0	-8462.93	0	nr	75	nr	0	nr	0	nr	75
784	INC	nr	0	63.41	63	nr	75	nr	50	96.31	96	nr	0	nr	0	-2646.55	0	nr	0
805	INC	nr	0	73.50	73	nr	0	nr	0	nr	50	73.72	74	-316.46	0	70.78	71	nr	75

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
806	INC	95.77	96	66.47	66	85.41	85	-1025.54	0	24.67	25	nr	75	-31.36	0	49.17	49	nr	0
807	INC	41.64	42	39.43	39	54.90	55	53.04	53	-1536.67	0	-349.69	0	-795.81	0	-1762.35	0	42.53	43
808	INC	nr	0	-38.32	0	nr	75	nr	50	-7885.28	0	nr	0	nr	0	-96.76	0	-29.87	0
809	INC	nr	50	nr	0	99.21	99	97.87	98	nr	0	nr	75	-354.42	0	91.87	92	nr	75
810	INC	nr	75	nr	0	94.52	95	86.54	87	nr	0	nr	0	nr	0	-543.78	0	nr	0
824	INC	-837.46	0	-134.37	0	-67.55	0	29.62	30	-1320.46	0	nr	75	nr	0	-1074.27	0	nr	0
825	INC	nr	50	80.00	80	nr	0	nr	0	-1321.95	0	nr	0	nr	0	nr	75	nr	50
902	INC	85.72	86	28.23	28	-231.54	0	-725.08	0	-634.89	0	nr	0	-354.81	0	-153.83	0	-3167.97	0
904	INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	-159.94	0	-19763.85	0	nr	0
905	INC	nr	0	nr	0	99.70	100	56.79	57	nr	0	nr	0	nr	0	-172.96	0	nr	25
906	INC	nr	75	77.68	78	nr	25	nr	75	75.64	76	nr	50	-891.12	0	-1559.85	0	nr	75
914	INC	nr	0	-257.14	0	nr	0	nr	50	nr	25	91.71	92	nr	75	-2677.78	0	95.44	95
915	INC	nr	50	73.45	73	93.48	93	88.18	88	nr	0	nr	0	6.98	7	84.49	84	52.94	53

TABLE C-8b. MODEL GROUP SELECTION FOR OPTION 1C WITH 25% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 1c with 25% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO	D/F		
200	CK	FF	34	0	0	76	0	0	0	na	25	5	Add WQ + CI + FF
201	CK	FF	0	0	0	73	0	0	0	na	75	7	Moderate DOM on FF
202	CK	FF	68	0	34	0	0	0	0	na	0	4	Add CI + FF
203	CK	ESP	0	0	86	0	31	0	0	na	96	16	Add WQ + CI + FF + PT
204	CK	ESP	62	0	84	0	0	0	0	na	65	5	Add WQ + CI + FF
205	CK	ESP	77	35	95	0	0	0	0	na	0	4	Add CI + FF
206	CK	ESP	59	0	72	0	3	0	0	na	83	16	Add WQ + CI + FF + PT
207	CK	MC/ESP	60	0	79	0	0	0	0	na	0	4	Add CI + FF
208	CK	ESP	68	0	12	0	0	0	0	na	0	4	Add CI + FF
228	CK	ESP	0	0	75	0	0	0	0	na	0	3	Add FF
300	CK	ESP	75	58	96	0	0	0	0	na	98	5	Add WQ + CI + FF
301	CK	FF	94	24	0	0	0	0	0	na	75	4	Add CI + FF
302	CK	ESP	0	0	91	0	0	0	0	na	75	4	Add CI + FF
303	CK	QC/FF	77	0	0	0	0	0	0	na	0	4	Add CI + FF
304	CK	ESP	85	49	88	0	0	0	0	na	89	5	Add WQ + CI + FF
305	CK	ESP	38	59	93	0	25	0	0	na	99	16	Add WQ + CI + FF + PT
306	CK	MC/FF	100	0	0	0	0	0	0	na	0	5	Add WQ + CI + FF
308	CK	ESP	75	0	16	0	0	0	0	na	75	4	Add CI + FF
309	CK	MC/ESP	83	0	87	0	0	0	0	na	99	5	Add WQ + CI + FF
315	CK	FF	75	0	0	0	0	0	0	na	75	4	Add CI + FF
316	CK	FF	50	0	0	0	0	0	0	na	75	5	Add WQ + CI + FF
317	CK	FF	75	0	0	0	0	0	0	na	84	5	Add WQ + CI + FF
318	CK	ESP	75	0	42	0	0	0	0	na	75	4	Add CI + FF
319	CK	ESP	88	20	88	0	0	87	0	na	96	16	Add WQ + CI + FF + PT
320	CK	FF	50	0	0	0	0	38	0	na	0	8	Add CI + FF + PT
321	CK	ESP	50	71	0	0	0	49	0	na	0	8	Add CI + FF + PT
322	CK	ESP	0	0	49	0	0	0	0	na	93	20	Moderate DOM on ESP + Add WQ
323	CK	ESP	50	0	91	0	6	0	0	na	94	16	Add WQ + CI + FF + PT
335	CK	ESP	83	0	89	0	30	0	0	na	99	16	Add WQ + CI + FF + PT
401	CK	ESP	89	42	92	6	0	0	0	na	49	4	Add CI + FF
402	CK	ESP	79	44	98	13	0	63	0	na	0	8	Add CI + FF + PT
403	CK	ESP	99	13	0	0	0	0	0	na	81	5	Add WQ + CI + FF
404	CK	ESP	0	0	0	27	0	14	0	na	78	19	Add WQ + IWS
405	CK	ESP	67	0	92	68	0	0	0	na	50	4	Add CI + FF

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 1c with 25% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO	D/F		
223	LWAK	FF	82	0	0	0	20	0	0	0	75	4	Add CI + FF + ST
224	LWAK	FF	61	0	0	0	0	0	0	0	25	3	Add CI + FF
225	LWAK	FF	0	0	0	0	0	0	0	0	0	1	None
226	LWAK	FF	50	0	0	0	0	0	0	0	0	3	Add CI + FF
227	LWAK	FF	67	0	0	0	0	0	0	0	0	3	Add CI + FF
307	LWAK	FF/VS	99	0	0	0	0	0	0	0	0	3	Add CI + FF
310	LWAK	FF	60	6	76	0	0	0	0	0	52	3	Add CI + FF
311	LWAK	FF	63	0	82	0	0	55	0	0	83	4	Add CI + FF + ST
312	LWAK	FF	34	0	81	0	0	59	0	0	96	4	Add CI + FF + ST
313	LWAK	FF	0	0	82	73	0	0	0	0	75	2	Add FF
314	LWAK	FF	78	42	95	61	0	0	0	0	0	3	Add CI + FF
336	LWAK	FF	75	0	75	0	0	0	0	0	99	3	Add CI + FF

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 1c with 25% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO	D/F		
209	INC	WHB,FF/VQ/PT/DM	0	0	0	0	0	94	25	63	50	35	Moderate DOM on combustor + Add WQ + PT
210	INC	FF/S	75	0	50	75	1	0	0	0	99	29	Small DOM on existing WS + Add RH + CI + FF
211	INC	SS/PT/VS	25	0	75	50	0	84	0	0	0	13	Add RH + CI + FF + PT
212	INC	FF/S	0	36	0	0	62	0	0	0	75	7	Moderate DOM on existing FF & WS
214	INC	IWS	97	35	89	47	0	25	0	0	0	29	Small DOM on existing IWS + Add RH + CI+FF
216	INC	HES/WS	68	50	90	39	0	0	0	0	89	9	Add RH + CI + FF
221	INC	PT	20	0	0	0	0	78	0	0	0	13	Add RH + CI + FF + PT
222	INC	WHB/SD/ESP/Q/PBS	50	0	0	0	0	0	0	0	0	8	Add CI
229	INC	WHB/ACS/HCS/CS	75	21	0	0	62	75	0	75	0	43	Add AB + RH + CB + IWS
324	INC	?	50	0	88	28	68	0	0	0	75	13	Add RH + CI + FF + PT
325	INC	SD/FF/WS/IWS	77	0	10	0	0	75	0	0	50	15	Moderate DOM on existing FF + PT + CI
327	INC	SD/FF/WS/ESP	99	0	0	0	0	0	0	0	0	8	Add CI
329	INC	PT/IWS	75	51	75	75	0	0	0	0	25	9	Add RH + CI + FF
330	INC	QT/WS/DM	0	64	76	0	34	0	0	0	0	3	Moderate DOM on existing WS + Add RH + CI + FF
331	INC	PT/IWS	85	0	98	0	75	75	0	0	0	13	Add RH + CI + FF + PT
332	INC	WS	25	87	0	0	13	93	0	80	75	39	Add AB + RH + CI + FF + PT
333	INC	SD/FF	0	0	0	50	42	0	0	0	0	14	Moderate DOM on existing SD & FF
334	INC	WS/ESP/PT	0	73	98	84	0	0	0	0	0	9	Add RH + CI + FF
337	INC	WHB/DA/DI/FF	96	0	3	64	0	73	0	0	50	58	Moderate DOM on existing FF & DI + Add CI
338	INC	QC/FF/SS/C/HES/DM	89	0	0	0	0	0	0	0	0	8	Add CI
339	INC	AT/PT/RJS/ESP	75	0	25	0	0	0	0	0	0	28	Moderate DOM on ESP + RH + CB
340	INC	WHB/ESP/WS	35	0	0	0	0	50	0	0	75	59	Moderate DOM on WS + Add WQ + CI
341	INC	DA/DI/FF/HEPA/CA	0	0	0	0	0	0	0	0	0	8	Add CI
342	INC	WHB/QC/S/VS/DM	1	0	0	0	0	75	0	0	0	40	Add RH + CB + PT
344	INC	QC/VS/PT/DM	50	0	0	0	0	0	0	0	0	9	Add RH + CI + FF
346	INC	C/QC/VS/PT/DM	0	0	11	0	0	75	0	0	50	60	Small DOM on existing VS + Add PT
347	INC	C/QC/VS/S/DM	0	0	0	0	0	0	0	0	0	1	None
348	INC	QC/AS/IWS	75	0	0	0	0	0	0	0	0	32	Add RH + CB
349	INC	QC/FF/QC/PT	0	0	0	75	50	75	0	0	75	4	Add IWS
350	INC	WHB/HE/FF	0	0	75	50	0	0	0	0	0	6	Add FF
351	INC	GC/C/FF	50	0	0	0	0	50	0	0	0	34	Add CI + PT
353	INC	QC/VS/DM/ESP	0	31	20	33	0	0	0	0	0	17	Moderate DOM on existing ESP
354	INC	QC/AS/VS/DM/IWS	0	0	0	0	0	0	0	0	50	1	None
356	INC	QC/AS/FN/DM	75	52	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
357	INC	QC/VS/PT/IWS	75	39	75	0	0	0	0	0	0	9	Add RH + CI + FF
358	INC	QC/VS/C/CT/S/DM	50	53	50	0	0	75	0	0	0	13	Add RH + CI + FF + PT
359	INC	WHB/FF/S	75	20	85	100	0	0	0	0	75	9	Add RH + CI + FF
400	INC	SD/FF	58	0	89	28	0	75	0	0	0	36	Add IWS + CI

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 1c with 25% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO	D/F		
500	INC	QC/VS/KOV/DM	0	0	0	0	0	85	0	0	50	2	Add PT
502	INC	WHB/QC/PBC/VS/ES	50	57	94	0	0	0	0	0	75	9	Add RH + CI + FF
503	INC	HTHE/LTHE/FF	57	43	90	81	0	75	0	50	0	38	Moderate DOM on combustor + Add IWS + CI
504	INC	VS/C	100	17	0	47	0	0	0	0	0	9	Add RH + CI + FF
600	INC	WHB/QC/PT/IWS	0	0	0	50	0	75	0	0	75	4	Add IWS
700	INC	SD/RJS/VS/WS	0	65	100	89	0	0	0	0	0	6	Add FF
701	INC	VS/PT	75	65	0	75	0	0	0	0	75	9	Add RH + CI + FF
702	INC	QT/S/C	0	82	75	0	0	75	0	0	50	13	Add RH + CI + FF + PT
703	INC	WHB	75	0	0	0	90	0	0	0	4	20	Add WQ + CB + PT
704	INC	NONE	0	23	0	0	78	50	0	0	0	4	Add IWS
705	INC	QT/VS/ESP/PT	48	44	53	33	0	0	0	0	0	9	Add RH + CI + FF
706	INC	QT/HS/C	75	65	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
707	INC	QT/WS	0	63	75	0	0	0	0	99	0	25	Add AB + RH + CI + FF
708	INC	WS/ESP	0	40	0	50	0	75	0	0	75	13	Add RH + CI + FF + PT
709	INC	NONE	50	63	0	0	0	0	0	0	0	10	Add WQ + CB + FF
710	INC	QT/OS/C/S	50	46	75	0	63	99	0	0	43	13	Add RH + CI + FF + PT
711	INC	C/VS/AS	0	48	0	0	0	75	0	0	0	13	Add RH + CI + FF + PT
712	INC	NONE	0	31	0	0	0	0	0	0	75	6	Add FF
713	INC	VS/PT	75	78	50	0	0	75	0	0	0	13	Add RH + CI + FF + PT
714	INC	WS	0	18	75	0	33	0	0	0	0	3	Moderate DOM on existing WS + Add RH + CI + FF
725	INC	WS/QT	0	25	0	0	0	98	0	0	50	13	Add RH + CI + FF + PT
726	INC	QC/CS/DM/VS	75	0	75	75	0	75	0	0	0	13	Add RH + CI + FF + PT
727	INC	GC/C/FF	0	82	75	50	0	0	89	95	0	21	Add AB + FF
728	INC	QT/PT/VS	0	65	0	0	0	75	0	0	25	37	Moderate DOM on existing VS + Add RH + CB + PT
784	INC	NONE	0	63	75	50	96	0	0	0	75	4	Add IWS
805	INC	QT/QS/VS/ES/PBS	0	73	0	0	50	74	0	71	95	24	Moderate DOM on Combustor +Add RH + CI + PT + FF
806	INC	C/VS	96	66	85	0	25	75	0	49	53	24	Moderate DOM on Combustor +Add RH + CI + PT + FF
807	INC	C/WHB/VQ/PT/HS/DM	42	39	55	53	0	0	0	0	0	9	Add RH + CI + FF
808	INC	QT/PBS/ESP	0	0	75	50	0	0	0	0	0	6	Add FF
809	INC	VS	50	0	99	98	0	75	0	92	0	39	Add AB + RH + CI + FF + PT
810	INC	Q/VS/PBS	75	0	95	87	0	0	0	0	0	9	Add RH + CI + FF
824	INC	QT/VS/PT/DM	0	0	0	30	0	75	0	0	0	16	Moderate DOM on existing VS + Add PT
825	INC	CCS/QC/ESP	50	80	0	0	0	0	0	75	0	25	Add AB + RH + CI + FF
902	INC	QT/VS/PT	86	28	0	0	0	0	0	0	0	9	Add RH + CI + FF
904	INC	?	0	0	75	0	0	0	0	0	0	6	Add FF
905	INC	QT/VS/AS/CS	0	0	100	57	0	0	0	0	0	9	Add RH + CI + FF
906	INC	QT/PT	75	78	25	75	76	50	0	0	0	42	Add RH + CB + IWS
914	INC	?	0	0	0	50	25	92	75	0	0	39	Add AB + RH + CI + FF + PT

TABLE C-8b. MODEL GROUP SELECTION FOR OPTION 1C WITH 25% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 1c with 25% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO	D/F		
915	INC	QC/VS/C	50	73	93	88	0	0	7	84	0	25	Add AB + RH + CI + FF

TABLE C-8c.. CHARACTERIZATION MODEL PLANTS, OPTION 1C, 25%FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
CK	Group 3	Add FF	1	228 *	S	Ash Grove	ESP	148,537	147,000	
	Group 4	Add CI + FF	1	207	S	Keystone	MC/ESP	90,681	147,000	
			1	301	S	Essroc	FF	185,409	147,000	
			2	302 *	S	Lafarge	ESP	130,576	147,000	
			3	308 *	S	North Texas	ESP	162,599	147,000	
			1	315 *	S	Southdown	FF	102,042	147,000	
			4	318 *	S	Texas Indutries	ESP	152,675	147,000	
			1	401	S	Ash Grove	ESP	172,481	147,000	
			1	405	S	Ash Grove	ESP	194,905	147,000	
			1	202	L	Heartland	FF	221,421	370,000	
			1	205	L	Holnam	ESP	253,556	370,000	
			1	208	L	Keystone	ESP	307,644	370,000	
			1	303	L	Lone Star	MC/FF	408,681	370,000	
	Group 5	Add Q + CI + FF	2	200	S	Giant	FF	123,584	147,000	
			2	300	S	Essroc	ESP	164,692	147,000	
			1	403	S	Ash Grove	ESP	184,877	147,000	
			1	204	L	Holnam	ESP	693,613	370,000	
			1	304	L	Lone Star	ESP	300,367	370,000	
			1	306	L	National	MC/FF	280,868	370,000	
			1	309	L	River Cement	MC/ESP	665,839	370,000	
			1	316 *	L	Southdown	FF	nr	370,000	
			1	317	L	Southdown	FF	422,190	370,000	
	Group 7	Moderate DOM on FF	2	201 *	S	Giant	FF	137,945	147,000	
	Group 8	Add CI + FF + PT	1	321 *	S	Lafarge	ESP	59,542	147,000	85
			1	402	S	Ash Grove	ESP	187,605	147,000	85
			3	320 *	L	Lafarge	FF	nr	370,000	85
	Group 16	Add Q + CI + FF + PT	2	305	S	Medusa	ESP	196,903	147,000	85
			1	323	S	Lafarge	FF	185,409	147,000	85
			1	335	S	Medusa	ESP	100,378	147,000	85
			1	203	L	Holnam	ESP	291,645	370,000	85
			1	206	L	Holnam	ESP	348,510	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
	Group 19	Add Q + IWS	1	404	L	Ash Grove	ESP	265,721	370,000	85
	Group 20	Moderate DOM on ESP + Add Q	1	322	S	Lafarge	ESP	112,269	147,000	
LWAK	Group 1	None	1	225	M	Solite	FF	38,270	40,500	
	Group 2	Add FF	1	313	M	Solite	FF	36,793	40,500	
LWAK (cont.)	Group 3	Add CI + FF	1	227	M	Solite	FF	38,796	40,500	
			1	224	M	Solite	FF	39,049	40,500	
			1	226 *	M	Solite	FF	nr	40,500	
			2	307	M	Norlite	FF/VS	49,050	40,500	
			1	310	M	Solite	FF	47,770	40,500	
			1	314	M	Solite	FF	36,793	40,500	
			1	336 *	M	Solite	FF	30,336	40,500	
	Group 4	Add CI + FF + ST	1	223	M (hi HCl)	Solite	FF	29,092	40,500	1,570

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
			1	311	M (hi HCl)	Solite	FF	51,627	40,500	1,570
			1	312	M (hi HCl)	Solite	FF	47,698	40,500	1,570
INC	Group 1	None	1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
			1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
	Group 2	Add PT	1	500	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92
	Group 3	Moderate DOM on existing WS + Add RH + CI + FF	1	330	M	General Electric	QT/WS/DM	10,345	22,100	
			2	714 *	M	Olin Chemical	WS	19,185	22,100	
	Group 4	Add IWS	2	349 *	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
			1	704	S	Ashland	NONE	5,011	3,900	92
			1	784	S	Cook Composites	NONE	nr	3,900	92
			1	600 *	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
	Group 6	Add FF	1	904 *	S	First Chemical	?	5,950	3,900	
			1	350 *	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
			1	808 *	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
			1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	Moderate DOM on existing FF & WS	1	212	L	LWD	FF/S	44,610	60,800	
	Group 8	Add CI	1	341 *	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	222 *	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
			1	327	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
			1	338	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add RH + CI + FF	1	502 *	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	
			1	905 *	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	344 *	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	357 *	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	359 *	M	Atochem	WHB/FF/S	13,802	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	701 *	M	Eli Lilly	VS/PT	9,208	22,100	
			1	705	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	
INC (cont.)			1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
			1	810 *	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	216	L	Rollins	HES/WS	40,002	60,800	
			1	329 *	L	Dupont	PT/IWS	53,489	60,800	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	
	Group 10	Add Q + CB + FF	1	709 *	S	Cargill Chemical	NONE	3,123	3,900	
	Group 13	Add RH + CI + FF + PT	1	356 *	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	708 *	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
			1	713 *	S	Pfizer	VS/PT	2,625	3,900	92
			1	725	S	Zeneca	WS/QT	1,489	3,900	92
			1	726 *	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	324 *	M	Allied	?	12,120	22,100	92
			1	358 *	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	702 *	M	Dupont	QT/S/C	nr	22,100	92

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
			1	706 *	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
			1	710 *	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	211 *	L	LWD	SS/PT/VS	43,596	60,800	92
			1	221	L	Rollins	PT	51,114	60,800	92
			1	331 *	L	Ross	PT/IWS	44,379	60,800	92
			1	711 *	L	Chevron Chemical	C/VS/AS	52,907	60,800	92
	Group 14	Moderate DOM on existing SD & FF	1	333 *	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	Moderate DOM on existing FF + PT + CI	1	325 *	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92
	Group 16	Moderate DOM on existing VS + Add PT	1	824 *	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92
	Group 17	Moderate DOM on existing ESP	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
	Group 20	Add Q + CB + PT	1	703 *	S	Aristech	WHB	1,873	3,900	92
	Group 21	Add FF + AB	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
	Group 24	Moderate DOM on Combustor +Add RH + CI + PT + FF	1	805 *	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	92
			1	806 *	M	Amoco Oil	C/VS	20,641	22,100	92
	Group 25	Add RH + CI + FF + AB	1	825 *	M	General Electric	CCS/QC/ESP	21,363	22,100	
			1	915	M	Eastman Kodak	QC/VS/C	nr	22,100	
			1	707 *	L	Dupont	QT/WS	58,120	60,800	
	Group 28	Moderate DOM on ESP + RH + CB	1	339 *	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
	Group 29	Small DOM on existing IWS + Add RH + CI+FF	1	214 *	M	Rollins	IWS	34,655	22,100	
			1	210 *	L	LWD	FF/S	96,107	60,800	
INC	Group 32	Add RH + CB	1	348 *	S	Occidental Chemical	QC/AS/IWS	nr	3,900	
(cont.)	Group 34	Add CI + PT	1	351 *	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
	Group 35	Moderate DOM on combustor + Add Q + PT	1	209 *	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 36	Add IWS + CI	1	400 *	L	Marine Shale	SD/FF	179,333	60,800	92
	Group 37	Moderate DOM on existing VS + Add RH + CB + PT	1	728 *	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
	Group 38	Moderate DOM on combustor + Add IWS + CI	1	503 *	S	Lake City Army Ammo Plant	HTHE/LTHE/FF	4,747	3,900	92
	Group 39	Add RH + CI + FF + PT + AB	1	332 *	M	Thermalkem	WS	20,208	22,100	92
			1	914 *	M	Vertac Superfund	?	25,849	22,100	92
			1	809 *	L	Tennessee Eastman	VS	40,524	60,800	92
	Group 40	Add RH + CB + PT	1	342 *	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92
	Group 42	Add RH + CB + IWS	1	906 *	S	Monsanto	QT/PT	2,738	3,900	92
	Group 43	Add RH + CB + IWS + AB	1	229 *	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92
	Group 58	Moderate DOM on existing FF & DI + Add CI	2	337	M	Olnin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 59	Moderate DOM on WS + Add Q + CI	1	340 *	M	Miles	WHB/ESP/WS	16,003	22,100	92
	Group 60	Small DOM on existing VS + Add PT	1	346 *	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribution of reported values from other facilities.

** Reported Ratio is equal to the number of total units located at a site divided by the number of units for which information was reported.
Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units.

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)

nr = not reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 3	S	Add FF	1	$2,141K	$355K	$596K
	Group 4	S	Add CI,FF	14	$2,611K	$718K	$1,022K
		L		4	$5,658K	$1,490K	$2,139K
	Group 5	S	Add Q,CI,FF	5	$3,144K	$806K	$1,180K
		L		6	$6,570K	$1,645K	$2,414K
	Group 7	S	DOM FF mod	2	$125K	$41K	$46K
	Group 8	S	Add CI,FF,PT	2	$3,512K	$1,048K	$1,498K
		L		3	$7,593K	$2,174K	$3,138K
	Group 16	S	Add Q, CI, FF, PT	4	$4,045K	$1,136K	$1,656K
		L		3	$8,505K	$2,329K	$3,413K
	Group 19	L	Add Q, IWS	1	$5,322K	$902K	$1,740K
	Group 20	S	Moderate DOM on existing ESP, Add Q	1	$2,290K	$237K	$538K
LWAK	Group 1	M	None	1	$0K	$0K	$0K
	Group 2	M	Add FF	1	$661K	$161K	$236K
	Group 3	M	Add CI, FF	8	$1,074K	$350K	$480K
	Group 4	M (hi HCl)	Add CI, FF, ST	3	$2,302K	$680K	$1,009K
Incinerators	Group 1	M	None	2	$0K	$0K	$0K
	Group 2	L		1	$445K	$195K	$267K
	Group 3	M	DOM WS mod, Add RH,CI/CB,FF	3	$1,004K	$405K	$541K
	Group 4	S	Add IWS	4	$215K	$97K	$132K
		L		1	$1,331K	$228K	$445K
	Group 6	S	Add FF	1	$82K	$89K	$98K
		M		3	$295K	$121K	$154K
		L		1	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
	Group 8	M	Add CI/CB	1	$397K	$147K	$199K
		L		3	$425K	$224K	$280K
	Group 9	S	Add RH, CI/CB, FF	2	$575K	$241K	$315K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators (cont.)		M		9	$932K	$391K	$508K
		L		3	$1,681K	$672K	$876K
	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
	Group 13	S	Add PT, RH, CI/CB, FF	5	$632K	$331K	$414K
		M		5	$1,137K	$515K	$665K
		L		4	$2,126K	$866K	$1,143K
	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	1	$620K	$278K	$364K
	Group 16	S	DOM VS mod, Add PT	1	$68K	$96K	$109K
	Group 17	M	DOM ESP mod	1	$535K	$50K	$120K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K
	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
	Group 24	M	DOM combustor, Add PT,RH,CI/CB,FF	2	$1,291K	$515K	$690K
	Group 25	M	Add AB,RH,CI/CB,FF	2	$1,349K	$924K	$1,096K
		L		1	$2,223K	$1,947K	$2,223K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$178K	$267K
	Group 29	M	DOM IWS small, Add RH,CI/CB,FF	1	$972K	$403K	$528K
		L		1	$1,782K	$702K	$925K
	Group 32	S	Add RH, CB/CI	1	$493K	$152K	$216K
	Group 34	S	Add CI/CB, PT	1	$398K	$181K	$235K
	Group 35	M	Moderate DOM on Combustor, Add Q, PT	1	$637K	$172K	$267K
	Group 36	L	Add CI/CB, IWS	1	$1,755K	$452K	$725K
	Group 37	S	Moderate DOM on existng VS, Add RH, CI/CB, PT	1	$561K	$248K	$326K
	Group 38	S	Moderate DOM on Combustor, Add CI/CB, IWS	1	$672K	$188K	$287K
	Group 39	M	Add RH, CI/CB, FF, PT, AB	2	$1,554K	$1,048K	$1,253K
		L		1	$2,669K	$2,142K	$2,490K
	Group 40	S	Add RH, CI/CB, PT	1	$550K	$242K	$316K
	Group 42	S	Add RH, CI/CB, IWS	1	$708K	$249K	$348K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators (cont.)	Group 43	S	Add RH, CI/CB, IWS, AB	1	$973K	$441K	$576K
	Group 58	M	Moderate DOM on existing FF and DI, Add CI/CB	2	$778K	$174K	$286K
	Group 59	M	Moderate DOM on existing WS, Add CI/CB, Q	1	$746K	$210K	$317K
	Group 60	M	Small DOM on existing VS, Add PT	1	$244K	$137K	$178K

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
Floor Levels		5.00		0.03		60.00		80.00		60.00		1.00		5.00		50.00		0.20	
200	CK	50.32	50	-118.49	0	11.79	12	79.20	79	-259.90	0	-9939.48	0	nr	50	nr	75	nr	25
201	CK	-88.50	0	-130.41	0	-19.45	0	76.95	77	-207.84	0	-19113.07	0	nr	75	nr	0	nr	75
202	CK	75.67	76	-25.37	0	47.29	47	-171.43	0	-266.57	0	-275.34	0	nr	25	nr	75	nr	0
203	CK	16.29	16	-119.51	0	89.11	89	-189.88	0	46.51	47	-31.41	0	73.68	74	83.97	84	96.43	96
204	CK	71.34	71	0.26	0	87.34	87	-1160.17	0	-100402.56	0	-9353.25	0	nr	75	nr	75	64.91	65
205	CK	83.07	83	35.22	35	95.82	96	-302.25	0	-284.42	0	-388.22	0	77.74	78	68.68	69	-103.05	0
206	CK	69.25	69	-25.08	0	77.89	78	-833.89	0	25.32	25	-2331.38	0	58.59	59	65.82	66	82.61	83
207	CK	70.08	70	-31.99	0	83.38	83	-314.49	0	-1282.53	0	-241.01	0	nr	75	-55.04	0	-1150.00	0
208	CK	75.74	76	-108.75	0	30.45	30	-569.85	0	-1415.29	0	-329.31	0	nr	50	2.44	2	-4238.39	0
228	CK	nr	75	nr	0	nr	75	nr	0	nr	0	nr	0	70.41	70	91.26	91	2.44	0
300	CK	nr	75	58.04	58	96.85	97	8.66	9	-80.21	0	-241.59	0	73.86	74	86.56	87	98.33	98
301	CK	95.68	96	23.80	24	-558.71	0	-376.85	0	-27041.50	0	-464.49	0	58.57	59	92.67	93	nr	75
302	CK	nr	50	-44.64	0	93.18	93	-292.55	0	-518.37	0	-113.63	0	nr	50	nr	50	nr	75
303	CK	82.82	83	-30.43	0	-137.38	0	-574.52	0	-1488.16	0	-912.24	0	91.67	92	97.30	97	nr	0
304	CK	88.94	89	48.89	49	90.27	90	-98.82	0	-17386.05	0	-23156.06	0	nr	75	nr	75	88.89	89
305	CK	53.45	53	58.80	59	94.43	94	-169.43	0	42.41	42	-310.12	0	77.61	78	98.79	99	99.65	99
306	CK	99.86	100	-99.06	0	-270.97	0	-504.69	0	-2784.36	0	-494.23	0	nr	75	-6.16	0	-266.30	0
308	CK	nr	75	-36.36	0	33.16	33	-968.07	0	-1230.02	0	-30.46	0	nr	50	nr	75	nr	75
309	CK	87.05	87	-25.78	0	89.71	90	-1574.72	0	-26.92	0	-796.72	0	66.89	67	63.37	63	99.62	99
315	CK	nr	75	-2740.15	0	-307.71	0	-615.13	0	-2884.12	0	-4051.35	0	nr	50	nr	75	nr	75
316	CK	nr	50	-154.44	0	-963.78	0	-1053.42	0	-129.09	0	-10.72	0	16.67	17	81.95	82	nr	75
317	CK	nr	75	-1230.87	0	-108.38	0	-241.51	0	-1254.51	0	-1965.79	0	91.04	91	85.27	85	83.87	84
318	CK	nr	75	-225.02	0	53.66	54	-332.38	0	-26.00	0	-1105.30	0	23.08	23	83.10	83	nr	75
319	CK	90.96	91	20.00	20	90.38	90	-25.95	0	-0.72	0	90.21	90	92.23	92	81.21	81	96.42	96
320	CK	nr	75	-899.98	0	-2606.88	0	-1709.29	0	-2026.92	0	51.83	52	95.02	95	97.60	98	-136.97	0
321	CK	nr	50	71.43	71	-802.93	0	-1294.44	0	-1248.40	0	60.91	61	nr	50	nr	50	nr	0
322	CK	nr	0	-130.76	0	59.73	60	-208.71	0	-178.41	0	-390.28	0	32.43	32	91.99	92	92.54	93
323	CK	nr	75	-7.14	0	93.06	93	0.42	0	27.48	27	-1080.36	0	52.38	52	91.95	92	94.44	94
335	CK	87.59	88	-48.08	0	91.37	91	-647.06	0	45.86	46	-148.24	0	71.86	72	67.34	67	99.20	99
401	CK	91.75	92	42.41	42	93.35	93	19.03	19	-179.24	0	-76.83	0	90.33	90	94.75	95	48.72	49
402	CK	84.44	84	43.93	44	98.23	98	24.87	25	-325.73	0	71.36	71	83.26	83	95.67	96	nr	0
403	CK	99.43	99	13.39	13	-100.61	0	-143.20	0	-10132.30	0	-4529.68	0	71.70	72	91.80	92	81.31	81
404	CK	-17.57	0	-528.18	0	-7.97	0	37.49	37	14.29	14	33.74	34	68.51	69	93.02	93	77.88	78
405	CK	75.23	75	-36.56	0	93.69	94	72.09	72	-2468.19	0	-173.45	0	76.66	77	95.65	96	nr	50

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
Floor Levels		5.00		0.015		60.00		80.00		1300.00		2.50		5.00		50.00		0.20	
223	LWAK	83.87	84	-479.94	0	-962.76	0	-124.69	0	39.86	40	-299.36	0	nr	50	nr	0	nr	0
224	LWAK	65.09	65	-427.20	0	-1408.79	0	-331.05	0	-135054.67	0	-478.26	0	nr	50	nr	75	nr	0
225	LWAK	-6.84	0	-4045.81	0	-6064.30	0	-692.88	0	-115.61	0	-1685.71	0	nr	50	nr	0	nr	0
226	LWAK	nr	50	-1385.13	0	nr	0	nr	0	nr	0	nr	0	nr	50	nr	75	nr	0
227	LWAK	70.07	70	-926.73	0	-193.58	0	-297.03	0	14.39	14	-481.55	0	60.00	60	96.25	96	nr	0
307	LWAK	98.98	99	-38.09	0	-946.18	0	-25.21	0	-5817.72	0	-325.01	0	nr	50	-10.30	0	nr	0
310	LWAK	63.85	64	6.25	6	82.19	82	-33.99	0	-8.91	0	-13.57	0	nr	50	nr	0	nr	0
311	LWAK	66.92	67	-150.00	0	86.54	87	-121.23	0	-6.29	0	66.08	66	nr	50	nr	75	nr	0
312	LWAK	40.68	41	-114.28	0	85.87	86	-126.36	0	-0.73	0	69.18	69	nr	50	nr	0	nr	0
313	LWAK	-1248.51	0	-150.00	0	86.65	87	72.82	73	15.04	15	-304.63	0	nr	50	nr	75	nr	0
314	LWAK	80.16	80	42.18	42	96.37	96	60.57	61	-58.52	0	-28.87	0	nr	50	nr	0	nr	0
336	LWAK	nr	75	-84.34	0	nr	75	nr	0	nr	0	nr	0	nr	50	nr	75	-418.13	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
Floor Levels		5.00		0.015		60.00		80.00		25.00		1.00		5.00		50.00		0.20	0
209	INC	-56.03	0	-223.01	0	-650.89	0	-254.98	0	-135.39	0	95.33	95	nr	25	81.58	82	nr	75
210	INC	nr	0	-192.21	0	nr	50	nr	75	25.55	26	-217.40	0	-28.98	0	-13642.61	0	nr	25
211	INC	nr	50	-44.23	0	nr	75	nr	50	-7.85	0	87.71	88	-115.17	0	-951.02	0	nr	0
212	INC	nr	75	36.13	36	nr	0	nr	0	71.26	71	-491.78	0	-44.54	0	-917.31	0	nr	0
214	INC	97.48	97	35.45	35	91.85	92	47.30	47	-1644.19	0	nr	25	-305.40	0	-230.99	0	-237.84	0
216	INC	75.83	76	50.15	50	92.40	92	38.76	39	-165.50	0	nr	0	nr	75	-384.92	0	nr	0
221	INC	40.24	40	-5.42	0	-46.48	0	-31.44	0	-104.71	0	83.63	84	-41.03	0	-226.18	0	52.38	52
222	INC	nr	50	-597.56	0	-2035.46	0	nr	0	-1667.15	0	-167.01	0	-1425.98	0	-33.75	0	82.76	83
229	INC	nr	75	21.26	21	-32.26	0	-33.89	0	71.33	71	nr	75	nr	0	nr	75	96.38	96
324	INC	nr	50	-38.89	0	90.69	91	27.68	28	75.75	76	nr	0	nr	0	-59.91	0	nr	75
325	INC	82.70	83	-361.53	0	32.20	32	-152.27	0	-367.54	0	nr	75	-490.98	0	-383.87	0	nr	0
327	INC	99.42	99	-1094.70	0	-192.11	0	-200.94	0	-670.26	0	-453.59	0	3.94	4	-498.03	0	98.75	99
329	INC	nr	75	50.74	51	nr	75	nr	75	-256.06	0	-181.09	0	-102.15	0	-417.79	0	nr	50
330	INC	4.09	4	64.37	64	82.35	82	-49.79	0	50.72	51	nr	0	nr	50	nr	0	99.25	99
331	INC	88.98	89	-87.50	0	98.38	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-191.97	0
332	INC	nr	25	87.30	87	nr	0	nr	0	34.85	35	94.78	95	nr	0	90.00	90	nr	75
333	INC	nr	0	-1053.82	0	nr	0	nr	50	56.80	57	-76.65	0	nr	0	-1018.45	0	nr	0
334	INC	16.42	16	72.94	73	98.68	99	84.07	84	-57.03	0	nr	0	-146.46	0	32.52	33	89.47	89
337	INC	96.95	97	-6247.01	0	27.17	27	64.19	64	-7078.53	0	80.05	80	-53.62	0	-6480.76	0	nr	0
338	INC	91.74	92	-1099.99	0	-102.30	0	-5.63	0	-16691.60	0	-1938.12	0	-173.60	0	-2389.47	0	nr	0
339	INC	nr	75	-414.21	0	nr	50	nr	0	-43.75	0	-7449.86	0	-303.49	0	nr	0	nr	0
340	INC	51.48	51	-130.06	0	-588.07	0	-597.04	0	-49.86	0	nr	75	-209.62	0	-69.02	0	nr	75
341	INC	-435.90	0	-916.94	0	-333.83	0	-944.00	0	-1595.10	0	nr	0	nr	50	13.27	13	nr	50
342	INC	25.42	25	-316.97	0	-210.32	0	-3408.50	0	-11883.28	0	nr	75	nr	0	nr	0	nr	0
344	INC	nr	50	-826.62	0	-271.78	0	-16.98	0	-2652.25	0	nr	0	-178.75	0	-209.81	0	nr	25
346	INC	-1698.05	0	-1067.30	0	33.47	33	-553.14	0	-3233.16	0	nr	75	nr	0	-77.84	0	-63.93	0
347	INC	3.20	3	-115.39	0	-468.68	0	-443.92	0	-1578.83	0	nr	0	nr	0	nr	0	-936.27	0
348	INC	nr	75	-1399.99	0	-593.53	0	-2435.15	0	-44841.42	0	-100.54	0	nr	0	-502.09	0	nr	75
349	INC	nr	0	-690.51	0	-60.84	0	nr	75	nr	50	nr	75	nr	0	-476.61	0	nr	0
350	INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-1385.22	0	nr	0
351	INC	nr	50	-68.16	0	nr	0	-645.40	0	nr	0	nr	75	nr	0	32.39	32	nr	50
353	INC	-23.87	0	30.81	31	40.23	40	32.99	33	nr	0	nr	0	nr	0	-214.55	0	-57.48	0
354	INC	-498.43	0	-141.54	0	-2429.72	0	-684.78	0	-4154.36	0	14.29	14	nr	0	-1590.75	0	-2624.80	0
356	INC	nr	75	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	25	-1250.82	0	nr	75
357	INC	nr	75	38.53	39	nr	75	nr	0	-268.06	0	nr	0	nr	75	-354.30	0	nr	0
358	INC	nr	50	52.79	53	nr	50	nr	0	-728.93	0	nr	75	nr	0	-3231.54	0	nr	0
359	INC	nr	75	19.91	20	88.43	88	99.85	100	-211.26	0	nr	0	nr	0	49.71	50	nr	0
400	INC	68.86	69	-152.37	0	91.99	92	27.87	28	nr	0	nr	75	nr	50	nr	0	nr	50
500	INC	-67.73	0	-767.27	0	-2012.85	0	-2249.06	0	-80.57	0	88.95	89	nr	0	nr	0	-430.50	0
502	INC	nr	50	57.14	57	95.25	95	-5.12	0	-19.38	0	nr	0	nr	0	nr	75	-796.86	0
503	INC	67.77	68	43.40	43	92.20	92	81.34	81	nr	0	nr	75	nr	0	nr	50	nr	75
504	INC	99.73	100	16.67	17	-54.59	0	46.56	47	-446.47	0	nr	0	nr	0	nr	0	nr	0
600	INC	nr	25	-100.00	0	nr	0	nr	50	-2035.24	0	nr	75	nr	0	nr	0	nr	0
700	INC	-11.67	0	65.40	65	99.77	100	88.65	89	-89.72	0	-726.66	0	nr	0	nr	0	nr	0
701	INC	nr	75	65.22	65	nr	0	nr	75	-132.29	0	nr	0	-549.35	0	nr	0	nr	50
702	INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr	75
703	INC	nr	75	-400.00	0	nr	0	nr	0	92.28	92	nr	0	-1233.93	0	-4240.46	0	nr	0
704	INC	nr	25	23.08	23	nr	0	nr	0	83.78	84	nr	75	nr	0	-1042.24	0	nr	0
705	INC	61.00	61	43.74	44	64.66	65	32.84	33	-154.15	0	nr	0	nr	0	-1632.17	0	nr	75
706	INC	nr	75	64.87	65	nr	0	nr	0	-4633.70	0	nr	75	3.55	4	-25.75	0	-895.02	0
707	INC	nr	0	62.86	63	nr	75	nr	0	-394.52	0	nr	0	nr	0	99.28	99	nr	50
708	INC	nr	0	39.80	40	nr	0	nr	50	-3334.37	0	nr	75	nr	0	-473.71	0	nr	75
709	INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-291.04	0	-544.33	0	nr	0
710	INC	nr	50	45.78	46	nr	75	nr	0	72.29	72	99.33	99	60.53	61	-70.45	0	nr	0
711	INC	nr	25	47.67	48	nr	0	nr	0	-2880.51	0	nr	75	nr	50	-245.51	0	nr	75
712	INC	nr	0	30.97	31	-2569.12	0	-241.79	0	nr	0	nr	0	nr	0	nr	0	nr	0
713	INC	nr	75	77.78	78	nr	50	nr	0	4.33	4	nr	75	nr	0	-2398.65	0	nr	75
714	INC	nr	0	18.48	18	nr	75	nr	0	50.00	50	nr	0	nr	0	-195.25	0	nr	50
725	INC	-210.22	0	24.62	25	-52.46	0	-69.64	0	-361.62	0	98.28	98	-185.71	0	-1110.45	0	3.85	4

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. Reduct.	PM Req. % Reduct.	PM Adj. Reduct.	SVM Req. % Reduct.	SVM Adj. Reduct.	LVM Req. % Reduct.	LVM Adj. Reduct.	HCl Req. % Reduct.	HCl Adj. Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. Reduct.	HC Req. % Reduct.	HC Adj. Reduct.	CO Req. % Reduct.	CO Adj. Reduct.	TEQ Req. % Reduct.	TEQ Adj Reduct
726	INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	65.76	66	-147.16	0	nr	0
727	INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	97.29	97	97.74	98	nr	0
728	INC	nr	0	65.04	65	nr	0	nr	0	-6322.20	0	nr	75	nr	0	nr	0	nr	75
784	INC	nr	0	63.41	63	nr	75	nr	50	97.23	97	nr	0	nr	25	-1273.27	0	nr	0
805	INC	nr	0	73.50	73	nr	0	nr	0	nr	50	80.29	80	-4.12	0	85.39	85	nr	75
806	INC	96.83	97	66.47	66	89.06	89	-1025.54	0	43.50	44	nr	75	67.16	67	74.58	75	nr	0
807	INC	56.23	56	39.43	39	66.18	66	53.04	53	-1127.50	0	-237.27	0	-123.95	0	-831.18	0	42.53	43
808	INC	nr	25	-38.32	0	nr	75	nr	50	-5888.96	0	nr	0	nr	0	1.62	2	-29.87	0
809	INC	nr	50	nr	0	99.41	99	97.87	98	nr	0	nr	75	-13.61	0	95.94	96	nr	75
810	INC	nr	75	nr	0	95.89	96	86.54	87	nr	0	nr	0	nr	0	-221.89	0	nr	0
824	INC	-603.10	0	-134.37	0	-25.66	0	29.62	30	-965.34	0	nr	75	nr	50	-487.13	0	nr	0
825	INC	nr	50	80.00	80	nr	0	nr	0	-966.47	0	nr	0	nr	0	nr	75	nr	50
902	INC	89.29	89	28.23	28	-148.65	0	-725.08	0	-451.17	0	nr	0	-13.70	0	-26.92	0	-3167.97	0
904	INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	35.02	35	-9831.93	0	nr	0
905	INC	nr	0	nr	0	99.77	100	56.79	57	nr	0	nr	0	nr	50	-36.48	0	nr	25
906	INC	nr	75	77.68	78	nr	50	nr	75	81.73	82	nr	25	-147.78	0	-729.92	0	nr	75
914	INC	nr	0	-257.14	0	nr	0	nr	50	nr	75	93.78	94	nr	75	-1288.89	0	95.44	95
915	INC	nr	75	73.45	73	95.11	95	88.18	88	nr	50	nr	0	76.74	77	92.24	92	52.94	53

TABLE 36. MODEL GROUP SELECTION FOR OPTION 2A WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 2a with 0% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	D/F		
200	CK	FF	50	0	12	79	0	0	50	75	25	12	Add AB + WQ + CI + FF
201	CK	FF	0	0	0	77	0	0	75	0	75	24	Add AB + WQ + FF
202	CK	FF	76	0	47	0	0	0	25	75	0	12	Add AB + WQ + CI + FF
203	CK	ESP	16	0	89	0	47	0	74	84	96	13	Add AB + WQ + CI + FF + PT
204	CK	ESP	71	0	87	0	0	0	75	75	65	12	Add AB + WQ + CI + FF
205	CK	ESP	83	35	96	0	0	0	78	69	0	12	Add AB + WQ + CI + FF
206	CK	ESP	69	0	78	0	25	0	59	66	83	13	Add AB + WQ + CI + FF + PT
207	CK	MC/ESP	70	0	83	0	0	0	75	0	0	12	Add AB + WQ + CI + FF
208	CK	ESP	76	0	30	0	0	0	50	2	0	12	Add AB + WQ + CI + FF
228	CK	ESP	75	0	75	0	0	0	70	91	0	12	Add AB + WQ + CI + FF
300	CK	ESP	75	58	97	9	0	0	74	87	98	12	Add AB + WQ + CI + FF
301	CK	FF	96	24	0	0	0	0	59	93	75	12	Add AB + WQ + CI + FF
302	CK	ESP	50	0	93	0	0	0	50	50	75	12	Add AB + WQ + CI + FF
303	CK	QC/FF	83	0	0	0	0	0	92	97	0	12	Add AB + WQ + CI + FF
304	CK	ESP	89	49	90	0	0	0	75	75	89	12	Add AB + WQ + CI + FF
305	CK	ESP	53	59	94	0	42	0	78	99	99	13	Add AB + WQ + CI + FF + PT
306	CK	MC/FF	100	0	0	0	0	0	75	0	0	12	Add AB + WQ + CI + FF
308	CK	ESP	75	0	33	0	0	0	50	75	75	12	Add AB + WQ + CI + FF
309	CK	MC/ESP	87	0	90	0	0	0	67	63	99	12	Add AB + WQ + CI + FF
315	CK	FF	75	0	0	0	0	0	50	75	75	12	Add AB + WQ + CI + FF
316	CK	FF	50	0	0	0	0	0	17	82	75	12	Add AB + WQ + CI + FF
317	CK	FF	75	0	0	0	0	0	91	85	84	12	Add AB + WQ + CI + FF
318	CK	ESP	75	0	54	0	0	0	23	83	75	12	Add AB + WQ + CI + FF
319	CK	ESP	91	20	90	0	0	90	92	81	96	13	Add AB + WQ + CI + FF + PT
320	CK	FF	75	0	0	0	0	52	95	98	0	13	Add AB + WQ + CI + FF + PT
321	CK	ESP	50	71	0	0	0	61	50	50	0	13	Add AB + WQ + CI + FF + PT
322	CK	ESP	0	0	60	0	0	0	32	92	93	27	Moderate DOM on ESP + Add AB + WQ
323	CK	ESP	75	0	93	0	27	0	52	92	94	13	Add AB + WQ + CI + FF + PT
335	CK	ESP	88	0	91	0	46	0	72	67	99	13	Add AB + WQ + CI + FF + PT
401	CK	ESP	92	42	93	19	0	0	90	95	49	12	Add AB + WQ + CI + FF
402	CK	ESP	84	44	98	25	0	71	83	96	0	13	Add AB + WQ + CI + FF + PT
403	CK	ESP	99	13	0	0	0	0	72	92	81	12	Add AB + WQ + CI + FF
404	CK	ESP	0	0	0	37	14	34	69	93	78	26	Add AB + WQ + IWS
405	CK	ESP	75	0	94	72	0	0	77	96	50	12	Add AB + WQ + CI + FF

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 2a with 0% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	D/F		
223	LWAK	FF	84	0	0	0	40	0	50	0	0	11	Add AB + WQ + CI + FF + ST
224	LWAK	FF	65	0	0	0	0	0	50	75	0	9	Add AB + WQ + CI + FF
225	LWAK	FF	0	0	0	0	0	0	50	0	0	12	Add AB + WQ
226	LWAK	FF	50	0	0	0	0	0	50	75	0	9	Add AB + WQ + CI + FF
227	LWAK	FF	70	0	0	0	14	0	60	96	0	11	Add AB + WQ + CI + FF + ST
307	LWAK	FF/VS	99	0	0	0	0	0	50	0	0	9	Add AB + WQ + CI + FF
310	LWAK	FF	64	6	82	0	0	0	50	0	0	9	Add AB + WQ + CI + FF
311	LWAK	FF	67	0	87	0	0	66	50	75	0	11	Add AB + WQ + CI + FF + ST
312	LWAK	FF	41	0	86	0	0	69	50	0	0	11	Add AB + WQ + CI + FF + ST
313	LWAK	FF	0	0	87	73	15	0	50	75	0	13	Add IWS + AB + WQ
314	LWAK	FF	80	42	96	61	0	0	50	0	0	9	Add AB + WQ + CI + FF
336	LWAK	FF	75	0	75	0	0	0	50	75	0	9	Add AB + WQ + CI + FF

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 2a with 0% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	D/F		
209	INC	WHB,FF/VQ/PT/DM	0	0	0	0	0	95	25	82	75	52	Add AB + Q + PT
210	INC	FF/S	75	0	50	75	26	0	0	0	25	3	Moderate DOM on existing S + Add RH + CI + FF
211	INC	SS/PT/VS	50	0	75	50	0	88	0	0	0	13	Add RH + CI + FF + PT
212	INC	FF/S	0	36	0	0	71	0	0	0	0	7	Moderate DOM on existing FF & WS
214	INC	IWS	97	35	92	47	0	25	0	0	0	29	Small DOM on existing IWS + Add RH + CI+FF
216	INC	HES/WS	76	50	92	39	0	0	75	0	0	25	Add AB + RH + CI + FF
221	INC	PT	40	0	0	0	0	84	0	0	52	13	Add RH + CI + FF + PT
222	INC	WHB/SD/ESP/Q/PBS	50	0	0	0	0	0	0	0	83	8	Add CI
229	INC	WHB/ACS/HCS/CS	75	21	0	0	71	75	0	75	96	43	Add AB + RH + CB + IWS
324	INC	?	50	0	91	28	76	0	0	0	75	13	Add RH + CI + FF + PT
325	INC	SD/FF/WS/IWS	83	0	32	0	0	75	0	0	0	15	Moderate DOM on existing FF + PT + CI
327	INC	SD/FF/WS/ESP	99	0	0	0	0	0	4	0	99	53	Moderate DOM on combustor + Add CI
329	INC	PT/IWS	75	51	75	75	0	0	0	0	50	9	Add RH + CI + FF
330	INC	QT/WS/DM	4	64	82	0	51	0	50	0	99	56	Moderate DOM on combustor & WS + Add RH + CI + FF
331	INC	PT/IWS	89	0	98	0	75	75	0	0	0	13	Add RH + CI + FF + PT
332	INC	WS	25	87	0	0	35	95	0	90	75	39	Add AB + RH + CI + FF + PT
333	INC	SD/FF	0	0	0	50	57	0	0	0	0	14	Moderate DOM on existing SD & FF
334	INC	WS/ESP/PT	16	73	99	84	0	0	0	33	89	54	Moderate DOM on combustor + Add RH + CI + FF
337	INC	WHB/DA/DI/FF	97	0	27	64	0	80	0	0	0	15	Moderate DOM on existing FF + Add CI + PT
338	INC	QC/FF/SS/C/HES/DM	92	0	0	0	0	0	0	0	0	8	Add CI
339	INC	AT/PT/RJS/ESP	75	0	50	0	0	0	0	0	0	28	Moderate DOM on ESP + RH + CB
340	INC	WHB/ESP/WS	51	0	0	0	0	75	0	0	75	20	Add WQ + CI + PT
341	INC	DA/DI/FF/HEPA/CA	0	0	0	0	0	0	50	13	50	53	Moderate DOM on combustor + Add CI
342	INC	WHB/QC/S/VS/DM	25	0	0	0	0	75	0	0	0	40	Add RH + CB + PT
344	INC	QC/VS/PT/DM	50	0	0	0	0	0	0	0	25	9	Add RH + CI + FF
346	INC	C/QC/VS/PT/DM	0	0	33	0	0	75	0	0	0	16	Moderate DOM on existing VS + Add PT
347	INC	C/QC/VS/S/DM	3	0	0	0	0	0	0	0	0	9	Add RH + CI + FF
348	INC	QC/AS/IWS	75	0	0	0	0	0	0	0	75	32	Add RH + CB
349	INC	QC/FF/QC/PT	0	0	0	75	50	75	0	0	0	4	Add IWS
350	INC	WHB/HE/FF	0	0	75	50	0	0	0	0	0	6	Add FF
351	INC	GC/C/FF	50	0	0	0	0	75	0	32	50	46	Moderate DOM on combustor + Add CI + PT
353	INC	QC/VS/DM/ESP	0	31	40	33	0	0	0	0	0	17	Moderate DOM on existing ESP
354	INC	QC/AS/VS/DM/IWS	0	0	0	0	0	14	0	0	0	18	Small DOM on existing WS
356	INC	QC/AS/FN/DM	75	52	0	0	0	75	25	0	75	24	Moderate DOM on combustor + Add RH + CI + FF + PT
357	INC	QC/VS/PT/IWS	75	39	75	0	0	0	75	0	0	25	Add AB + RH + CI + FF

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 2a with 0% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	D/F		
358	INC	QC/VS/C/CT/S/DM	50	53	50	0	0	75	0	0	0	13	Add RH + CI + FF + PT
359	INC	WHB/FF/S	75	20	88	100	0	0	0	50	0	54	Moderate DOM on combustor + Add RH + CI + FF
400	INC	SD/FF	69	0	92	28	0	75	50	0	50	38	Moderate DOM on combustor + Add IWS + CI
500	INC	QC/VS/KOV/DM	0	0	0	0	0	89	0	0	0	2	Add PT
502	INC	WHB/QC/PBC/VS/ES	50	57	95	0	0	0	0	75	0	25	Add AB + RH + CI + FF
503	INC	HTHE/LTHE/FF	68	43	92	81	0	75	0	50	75	38	Moderate DOM on combustor + Add IWS + CI
504	INC	VS/C	100	17	0	47	0	0	0	0	0	9	Add RH + CI + FF
600	INC	WHB/QC/PT/IWS	25	0	0	50	0	75	0	0	0	13	Add RH + CI + FF + PT
700	INC	SD/RJS/VS/WS	0	65	100	89	0	0	0	0	0	6	Add FF
701	INC	VS/PT	75	65	0	75	0	0	0	0	50	9	Add RH + CI + FF
702	INC	QT/S/C	0	82	75	0	0	75	0	0	75	13	Add RH + CI + FF + PT
703	INC	WHB	75	0	0	0	92	0	0	0	0	20	Add WQ + CI + PT
704	INC	NONE	25	23	0	0	84	75	0	0	0	41	Add WQ + CI + FF + PT
705	INC	QT/VS/ESP/PT	61	44	65	33	0	0	0	0	75	9	Add RH + CI + FF
706	INC	QT/HS/C	75	65	0	0	0	75	4	0	0	24	Moderate DOM on combustor + Add RH + CI + FF + PT
707	INC	QT/WS	0	63	75	0	0	0	0	99	50	25	Add AB + RH + CI + FF
708	INC	WS/ESP	0	40	0	50	0	75	0	0	75	13	Add RH + CI + FF + PT
709	INC	NONE	50	63	0	0	0	0	0	0	0	10	Add WQ + CB + FF
710	INC	QT/OS/C/S	50	46	75	0	72	99	61	0	0	24	Moderate DOM on combustor + Add RH + CI + FF + PT
711	INC	C/VS/AS	25	48	0	0	0	75	50	0	75	24	Moderate DOM on combustor + Add RH + CI + FF + PT
712	INC	NONE	0	31	0	0	0	0	0	0	0	6	Add FF
713	INC	VS/PT	75	78	50	0	4	75	0	0	75	13	Add RH + CI + FF + PT
714	INC	WS	0	18	75	0	50	0	0	0	50	44	Moderate DOM on existing WS + Add RH + CI + FF
725	INC	WS/QT	0	25	0	0	0	98	0	0	4	13	Add RH + CI + FF + PT
726	INC	QC/CS/DM/VS	75	0	75	75	0	75	66	0	0	24	Moderate DOM on combustor + Add RH + CI + FF + PT
727	INC	GC/C/FF	0	82	75	50	0	0	97	98	0	21	Add AB + FF
728	INC	QT/PT/VS	0	65	0	0	0	75	0	0	75	37	Moderate DOM on existing VS + Add RH + CB + PT
784	INC	NONE	0	63	75	50	97	0	25	0	0	33	Moderate DOM on combustor + Add IWS
805	INC	QT/QS/VS/ES/PBS	0	73	0	0	50	80	0	85	75	39	Add AB + RH + CI + FF + PT
806	INC	C/VS	97	66	89	0	44	75	67	75	0	39	Add AB + RH + CI + FF + PT
807	INC	C/WHB/VQ/PT/HS/DM	56	39	66	53	0	0	0	0	43	9	Add RH + CI + FF
808	INC	QT/PBS/ESP	25	0	75	50	0	0	0	2	0	9	Add RH + CI + FF
809	INC	VS	50	0	99	98	0	75	0	96	75	39	Add AB + RH + CI + FF + PT
810	INC	Q/VS/PBS	75	0	96	87	0	0	0	0	0	9	Add RH + CI + FF
824	INC	QT/VS/PT/DM	0	0	0	30	0	75	50	0	0	23	Moderate DOM on combustor & VS + Add PT
825	INC	CCS/QC/ESP	50	80	0	0	0	0	0	75	50	25	Add AB + RH + CI + FF
902	INC	QT/VS/PT	89	28	0	0	0	0	0	0	0	9	Add RH + CI + FF
904	INC	?	0	0	75	0	0	0	35	0	0	55	Moderate DOM on combustor + Add FF
905	INC	QT/VS/AS/CS	0	0	100	57	0	0	50	0	25	54	Moderate DOM on combustor + Add RH + CI + FF

TABLE 36. MODEL GROUP SELECTION FOR OPTION 2A WITH 0% FEED REDUCTION

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 2a with 0% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	D/F		
906	INC	QT/PT	75	78	50	75	82	25	0	0	75	42	Add RH + CB + IWS
914	INC	?	0	0	0	50	75	94	75	0	95	39	Add AB + RH + CI + FF + PT
915	INC	QC/VS/C	75	73	95	88	50	0	77	92	53	39	Add AB + RH + CI + FF + PT

TABLE 37. CHARACTERIZATION OF ATF MODEL PLANTS, OPTION 2A, 0%FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
CK	Group 12	Add AB + WQ + CI + FF	2	200 *	S	Giant	FF	123,584	147,000	
			1	207 *	S	Keystone	MC/ESP	90,681	147,000	
			1	228 *	S	Ash Grove	ESP	148,537	147,000	
			2	300	S	Essroc	ESP	164,692	147,000	
			1	301	S	Essroc	FF	185,409	147,000	
			2	302 *	S	Lafarge	ESP	130,576	147,000	
			3	308 *	S	North Texas	ESP	162,599	147,000	
			1	315 *	S	Southdown	FF	102,042	147,000	
			4	318	S	Texas Industries	ESP	152,675	147,000	
			1	401	S	Ash Grove	ESP	172,481	147,000	
			1	403	S	Ash Grove	ESP	184,877	147,000	
			1	405 *	S	Ash Grove	ESP	194,905	147,000	
			1	202 *	L	Heartland	FF	221,421	370,000	
			1	204 *	L	Holnam	ESP	693,613	370,000	
			1	205	L	Holnam	ESP	253,556	370,000	
			1	208 *	L	Keystone	ESP	307,644	370,000	
			1	303	L	Lone Star	MC/FF	408,681	370,000	
			1	304 *	L	Lone Star	ESP	300,367	370,000	
			1	306 *	L	National	MC/FF	280,868	370,000	
			1	309	L	River Cement	MC/ESP	665,839	370,000	
			1	316 *	L	Southdown	FF	nr	370,000	
			1	317	L	Southdown	FF	422,190	370,000	
	Group 13	Add AB + WQ + CI + FF + PT	2	305	S	Medusa	ESP	196,903	147,000	85
			1	321 *	S	Lafarge	ESP	59,542	147,000	85
			1	323	S	Lafarge	FF	185,409	147,000	85
			1	335	S	Medusa	ESP	100,378	147,000	85
			1	402	S	Ash Grove	ESP	187,605	147,000	85
			1	203	L	Holnam	ESP	291,645	370,000	85
			1	206 *	L	Holnam	ESP	348,510	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
			3	320 *	L	Lafarge	FF	nr	370,000	85
	Group 24	Add AB + WQ + FF	2	201 *	S	Giant	FF	137,945	147,000	
	Group 26	Add AB + WQ + IWS	1	404	L	Ash Grove	ESP	265,721	370,000	85
	Group 27	Moderate DOM on ESP + Add AB + WQ	1	322	S	Lafarge	ESP	112,269	147,000	
LWAK	Group 9	Add AB + WQ + CI + FF	1	224 *	M	Solite	FF	39,049	40,500	
			1	226 *	M	Solite	FF	nr	40,500	
			2	307 *	M	Norlite	FF/VS	49,050	40,500	
			1	310 *	M	Solite	FF	47,770	40,500	
			1	314 *	M	Solite	FF	36,793	40,500	
			1	336 *	M	Solite	FF	30,336	40,500	
	Group 11	Add AB + WQ + CI + FF + ST	1	223 *	M	Solite	FF	29,092	40,500	1,570
			1	227	M	Solite	FF	38,796	40,500	1,570
			1	311 *	M	Solite	FF	51,627	40,500	1,570
			1	312 *	M	Solite	FF	47,698	40,500	1,570
	Group 12	Add AB + WQ	1	225 *	M	Solite	FF	38,270	40,500	
	Group 13	Add IWS + AB + WQ	1	313 *	M	Solite	FF	36,793	40,500	1,570

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
INC	Group 2	Add PT	1	500	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92
	Group 3	Moderate DOM on existing S + Add RH + CI + FF	1	210 *	L	LWD	FF/S	96,107	60,800	
	Group 4	Add IWS	2	349 *	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
	Group 6	Add FF	1	350 *	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
			1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	Moderate DOM on existing FF & WS	1	212	L	LWD	FF/S	44,610	60,800	
	Group 8	Add CI	1	222	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
			1	338	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add RH + CI + FF	1	344 *	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	701 *	M	Eli Lilly	VS/PT	9,208	22,100	
			1	705	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	
			1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
			1	808	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
			1	810 *	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	329 *	L	Dupont	PT/IWS	53,489	60,800	
	Group 10	Add WQ + CB + FF	1	709	S	Cargill Chemical	NONE	3,123	3,900	
	Group 13	Add RH + CI + FF + PT	1	708 *	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
			1	713 *	S	Pfizer	VS/PT	2,625	3,900	92
			1	725	S	Zeneca	WS/QT	1,489	3,900	92
			1	324 *	M	Allied	?	12,120	22,100	92
			1	358 *	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	702 *	M	Dupont	QT/S/C	nr	22,100	92
			1	211 *	L	LWD	SS/PT/VS	43,596	60,800	92
			1	221	L	Rollins	PT	51,114	60,800	92
			1	331 *	L	Ross	PT/IWS	44,379	60,800	92
			1	600 *	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
	Group 14	Moderate DOM on existing SD & FF	1	333 *	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	Moderate DOM on existing FF + PT + CI	1	325 *	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92
			2	337	M	Olin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 16	Moderate DOM on existing VS + Add PT	1	346 *	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92
	Group 17	Moderate DOM on existing ESP	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
	Group 18	Small DOM on existing WS	1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
	Group 20	Add WQ + CI + PT	1	703 *	S	Aristech	WHB	1,873	3,900	92
			1	340 *	M	Miles	WHB/ESP/WS	16,003	22,100	92
	Group 21	Add AB + FF	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
	Group 23	Moderate DOM on combustor & VS + Add PT	1	824 *	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
	Group 24	Moderate DOM on combustor + Add RH + CI + FF + PT	1	356 *	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	726 *	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	706 *	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
			1	710 *	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	711 *	L	Chevron Chemical	C/VS/AS	52,907	60,800	92
	Group 25	Add AB + RH + CI + FF	1	502 *	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	
			1	357 *	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	825 *	M	General Electric	CCS/QC/ESP	21,363	22,100	
			1	216 *	L	Rollins	HES/WS	40,002	60,800	
			1	707 *	L	Dupont	QT/WS	58,120	60,800	
	Group 28	Moderate DOM on ESP + RH + CB	1	339 *	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
	Group 29	Small DOM on existing IWS + Add RH + CI+FF	1	214 *	M	Rollins	IWS	34,655	22,100	
	Group 32	Add RH + CB	1	348 *	S	Occidental Chemical	QC/AS/IWS	nr	3,900	
	Group 33	Moderate DOM on combustor + Add IWS	1	784 *	S	Cook Composites	NONE	nr	3,900	92
	Group 37	Moderate DOM on existing VS + Add RH + CB + PT	1	728 *	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
	Group 38	Moderate DOM on combustor + Add IWS + CI	1	503 *	S	Lake City Army Ammo Plai	HTHE/LTHE/FF	4,747	3,900	92
			1	400 *	L	Marine Shale	SD/FF	179,333	60,800	92
	Group 39	Add AB + RH + CI + FF + PT	1	332 *	M	Thermalkem	WS	20,208	22,100	92
			1	805 *	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	92
			1	806	M	Amoco Oil	C/VS	20,641	22,100	92
			1	914 *	M	Vertac Superfund	?	25,849	22,100	92
			1	915 *	M	Eastman Kodak	QC/VS/C	nr	22,100	
			1	809 *	L	Tennessee Eastman	VS	40,524	60,800	92
	Group 40	Add RH + CB + PT	1	342 *	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92
	Group 41	Add WQ + CI + FF + PT	1	704 *	S	Ashland	NONE	5,011	3,900	92
	Group 42	Add RH + CB + IWS	1	906 *	S	Monsanto	QT/PT	2,738	3,900	92
	Group 43	Add AB + RH + CB + IWS	1	229 *	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92
	Group 44	Moderate DOM on existing WS + Add RH + CI + FF	2	714 *	M	Olin Chemical	WS	19,185	22,100	
	Group 46	Moderate DOM on combustor + Add CI + PT	1	351 *	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
	Group 52	Add AB + Q + PT	1	209 *	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 53	Moderate DOM on combustor + Add CI	1	341 *	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	327	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
	Group 54	Moderate DOM on combustor + Add RH + CI + FF	1	905 *	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	359 *	M	Atochem	WHB/FF/S	13,802	22,100	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	
	Group 55	Moderate DOM on combustor + Add FF	1	904 *	S	First Chemical	?	5,950	3,900	

TABLE 37. CHARACTERIZATION OF ATF MODEL PLANTS, OPTION 2A, 0%FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
	Group 56	Moderate DOM on combustor & WS + Add RH + CI + FF	1	330 *	M	General Electric	QT/WS/DM	10,345	22,100	

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribution of reported values from other facilities.
** Reported Ratio is equal to the number of total units located at a site divided by the number of units for which information was reported.
Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units.
nr = not reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 12	S	Add Q, CI, FF, AB	20	$3,825K	$4,318K	$4,781K
		L		10	$7,437K	$10,098K	$10,980K
	Group 13	S	Add Q, CI, FF, AB, PT	6	$4,726K	$4,648K	$5,258K
		L		6	$9,371K	$10,782K	$11,979K
	Group 24	S	Add AB, Q, FF	2	$3,354K	$3,954K	$4,356K
	Group 26	L	Add AB, Q, IWS	1	$6,189K	$9,355K	$10,306K
	Group 27	S	Moderate DOM on existing ESP, Add AB, Q	1	$2,971K	$3,749K	$4,139K
LWAKs	Group 9	M	Add AB, Q, CI, FF	7	$1,883K	$1,615K	$1,850K
	Group 11	M (hi HCl)	Add AB, Q, CI, FF, ST	4	$3,112K	$1,944K	$2,380K
	Group 12	M	Add AB, Q	1	$809K	$1,264K	$1,371K
	Group 13	M (hi HCl)	Add AB, IWS	1	$1,825K	$1,946K	$2,218K
Incinerators	Group 2	L	Add PT	1	$445K	$195K	$267K
	Group 3	L	DOM WS mod, Add RH,CI/CB,FF	1	$1,876K	$712K	$968K
	Group 4	S	Add IWS	2	$215K	$97K	$132K
	Group 6	M	Add FF	2	$295K	$121K	$154K
		L		1	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
	Group 8	L	Add CI/CB	2	$425K	$224K	$280K
	Group 9	M	Add RH, CI/CB, FF	9	$932K	$391K	$508K
		L		1	$1,681K	$672K	$876K
	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
	Group 13	S	Add PT, RH, CI/CB, FF	3	$632K	$331K	$414K
		M		3	$1,137K	$515K	$665K
		L		4	$2,126K	$866K	$1,143K
	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	3	$620K	$278K	$364K
	Group 16	M	DOM VS mod, Add PT	1	$250K	$159K	$205K
	Group 17	M	DOM ESP mod	1	$535K	$50K	$120K
	Group 18	M	DOM WS small	1	$40K	$13K	$20K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators		M		1	$879K	$319K	$441K
(cont.)	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
	Group 23	S	DOM VS mod, DOM Combustor, Add PT	1	$185K	$96K	$128K
	Group 24	S	DOM combustor, Add PT,RH,CI/CB,FF	2	$749K	$331K	$433K
		M		2	$1,291K	$515K	$690K
		L		1	$2,312K	$866K	$1,173K
	Group 25	S	Add AB,RH,CI/CB,FF	1	$840K	$433K	$542K
		M		2	$1,349K	$924K	$1,096K
		L		2	$2,223K	$1,947K	$2,223K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$178K	$267K
	Group 29	M	DOM IWS small, Add RH,CI/CB,FF	1	$972K	$403K	$528K
	Group 32	S	Add RH, CB/CI	1	$493K	$152K	$216K
	Group 33	S	DOM Combustor, Add IWS	1	$331K	$97K	$151K
	Group 37	S	Moderate DOM on existng VS, Add RH, CI/CB, PT	1	$561K	$248K	$326K
	Group 38	S	Moderate DOM on Combustor, Add CI/CB, IWS	1	$672K	$188K	$287K
		L		1	$1,941K	$452K	$755K
	Group 39	M	Add RH, CI/CB, FF, PT, AB	5	$1,554K	$1,048K	$1,253K
		L		1	$2,669K	$2,142K	$2,490K
	Group 40	S	Add RH, CI/CB, PT	1	$550K	$242K	$316K
	Group 41	S	Add Q, CI/CB, FF, PT	1	$700K	$311K	$403K
	Group 42	S	Add RH, CI/CB, IWS	1	$708K	$249K	$348K
	Group 43	S	Add RH, CI/CB, IWS, AB	1	$973K	$441K	$576K
	Group 44	M	Add AB, CI/CB	2	$1,493K	$825K	$1,042K
	Group 46	S	Moderate DOM on Combustor, Add CI/CB, PT	1	$514K	$181K	$254K
	Group 52	M	Add AB, Q, PT	1	$899K	$706K	$830K
	Group 53	M	Moderate DOM on Combustor, Add CI/CB	1	$551K	$147K	$225K
		L		1	$610K	$224K	$310K
	Group 54	S	Moderate DOM on Combustor, Add RH, CI/CB, FF	1	$691K	$241K	$334K
		M		1	$1,087K	$391K	$533K
		L		1	$1,866K	$672K	$906K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators	Group 55	S	Moderate DOM on Combustor, Add FF	1	$198K	$89K	$117K
(cont.)	Group 56	M	Moderate DOM on WS, Combustor, Add RH, CI/CB, FF	1	$1,158K	$405K	$566K

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
Floor Levels		5.00		0.03		60.00		80.00		60.00		1.00		5.00		50.00		0.20	
200	CK	33.76	34	-118.49	0	-11.18	0	75.85	76	-365.89	0	-12896.09	0	nr	50	nr	75	nr	25
201	CK	-151.33	0	-130.41	0	-50.56	0	73.25	73	-298.50	0	-24771.29	0	nr	75	nr	0	nr	75
202	CK	67.57	68	-25.37	0	33.56	34	-215.07	0	-374.52	0	-385.88	0	nr	25	nr	75	nr	0
203	CK	-11.62	0	-119.51	0	86.27	86	-236.48	0	30.76	31	-70.10	0	73.68	74	83.97	84	96.43	96
204	CK	61.79	62	0.26	0	84.04	84	-1362.77	0	-130000.40	0	-12137.22	0	nr	75	nr	75	64.91	65
205	CK	77.43	77	35.22	35	94.73	95	-366.92	0	-397.63	0	-532.00	0	77.74	78	68.68	69	-103.05	0
206	CK	59.01	59	-25.08	0	72.13	72	-984.03	0	3.33	3	-3047.41	0	58.59	59	65.82	66	82.61	83
207	CK	60.11	60	-31.99	0	79.05	79	-381.13	0	-1689.68	0	-341.44	0	nr	75	-55.04	0	-1150.00	0
208	CK	67.65	68	-108.75	0	12.33	12	-677.54	0	-1861.54	0	-455.75	0	nr	50	2.44	2	-4238.39	0
228	CK	nr	75	nr	0	nr	75	nr	0	nr	0	nr	0	70.41	70	91.26	91	2.44	0
300	CK	nr	75	58.04	58	96.03	96	-6.02	0	-133.28	0	-342.19	0	73.86	74	86.56	87	98.33	98
301	CK	94.24	94	23.80	24	-730.24	0	-453.52	0	-35034.62	0	-630.73	0	58.57	59	92.67	93	nr	75
302	CK	nr	0	-44.64	0	91.40	91	-355.66	0	-700.48	0	-176.54	0	nr	50	nr	50	nr	75
303	CK	77.10	77	-30.43	0	-199.20	0	-682.96	0	-1955.87	0	-1210.34	0	91.67	92	97.30	97	nr	0
304	CK	85.26	85	48.89	49	87.73	88	-130.78	0	-22535.67	0	-30004.93	0	nr	75	nr	75	88.89	89
305	CK	37.94	38	58.80	59	92.98	93	-212.74	0	25.45	25	-430.90	0	77.61	78	98.79	99	99.65	99
306	CK	99.81	100	-99.06	0	-367.57	0	-601.90	0	-3633.80	0	-669.23	0	nr	75	-6.16	0	-266.30	0
308	CK	nr	75	-36.36	0	15.76	16	-1139.78	0	-1621.71	0	-68.87	0	nr	50	nr	75	nr	75
309	CK	82.73	83	-25.78	0	87.03	87	-1843.95	0	-64.30	0	-1060.80	0	66.89	67	63.37	63	99.62	99
315	CK	nr	75	-2740.15	0	-413.88	0	-730.10	0	-3762.94	0	-5273.91	0	nr	50	nr	75	nr	75
316	CK	nr	50	-154.44	0	-1240.79	0	-1238.86	0	-196.56	0	-43.33	0	16.67	17	81.95	82	nr	75
317	CK	nr	75	-1230.87	0	-162.65	0	-296.42	0	-1653.41	0	-2574.16	0	91.04	91	85.27	85	83.87	84
318	CK	nr	75	-225.02	0	41.59	42	-401.89	0	-63.11	0	-1460.26	0	23.08	23	83.10	83	nr	75
319	CK	87.95	88	20.00	20	87.88	88	-46.20	0	-30.38	0	87.33	87	92.23	92	81.21	81	96.42	96
320	CK	nr	50	-899.98	0	-3311.75	0	-2000.16	0	-2653.29	0	37.65	38	95.02	95	97.60	98	-136.97	0
321	CK	nr	50	71.43	71	-1038.05	0	-1518.62	0	-1645.51	0	49.40	49	nr	50	nr	50	nr	0
322	CK	nr	0	-130.76	0	49.25	49	-258.34	0	-260.41	0	-534.67	0	32.43	32	91.99	92	92.54	93
323	CK	nr	50	-7.14	0	91.25	91	-15.59	0	6.12	6	-1427.98	0	52.38	52	91.95	92	94.44	94
335	CK	83.45	83	-48.08	0	89.12	89	-767.16	0	29.91	30	-221.34	0	71.86	72	67.34	67	99.20	99
401	CK	89.00	89	42.41	42	91.62	92	6.01	6	-261.48	0	-128.90	0	90.33	90	94.75	95	48.72	49
402	CK	79.26	79	43.93	44	97.77	98	12.79	13	-451.10	0	62.93	63	83.26	83	95.67	96	nr	0
403	CK	99.23	99	13.39	13	-152.84	0	-182.29	0	-13145.69	0	-5893.12	0	71.70	72	91.80	92	81.31	81
404	CK	-56.76	0	-528.18	0	-36.09	0	27.44	27	-10.95	0	14.22	14	68.51	69	93.02	93	77.88	78
405	CK	66.98	67	-36.56	0	92.04	92	67.60	68	-3224.52	0	-253.98	0	76.66	77	95.65	96	nr	50

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
Floor Levels		5.00		0.015		60.00		80.00		1300.00		2.50		5.00		50.00		0.20	
223	LWAK	82.09	82	-479.94	0	-1304.10	0	-124.69	0	19.94	20	-431.63	0	nr	50	nr	0	nr	0
224	LWAK	61.23	61	-427.20	0	-1893.38	0	-331.05	0	-179818.36	0	-669.78	0	nr	50	nr	75	nr	0
225	LWAK	-18.64	0	-4045.81	0	-8044.14	0	-692.88	0	-187.02	0	-2277.15	0	nr	50	nr	0	nr	0
226	LWAK	nr	50	-1385.13	0	nr	0	nr	0	nr	0	nr	0	nr	50	nr	75	nr	0
227	LWAK	66.76	67	-926.73	0	-287.87	0	-297.03	0	-13.96	0	-674.17	0	60.00	60	96.25	96	nr	0
307	LWAK	98.87	99	-38.09	0	-1282.19	0	-25.21	0	-7777.68	0	-465.77	0	nr	50	-10.30	0	nr	0
310	LWAK	59.85	60	6.25	6	76.47	76	-33.99	0	-44.98	0	-51.18	0	nr	50	nr	0	nr	0
311	LWAK	63.26	63	-150.00	0	82.22	82	-121.23	0	-41.49	0	54.85	55	nr	50	nr	75	nr	0
312	LWAK	34.12	34	-114.28	0	81.33	81	-126.36	0	-34.10	0	58.97	59	nr	50	nr	0	nr	0
313	LWAK	-1397.52	0	-150.00	0	82.36	82	72.82	73	-13.09	0	-438.64	0	nr	50	nr	75	nr	0
314	LWAK	77.97	78	42.18	42	95.20	95	60.57	61	-111.03	0	-71.55	0	nr	50	nr	0	nr	0
336	LWAK	nr	75	-84.34	0	nr	75	nr	0	nr	0	nr	0	nr	50	nr	75	-418.13	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
Floor Levels		5.00		0.015		60.00		80.00		25.00		1.00		5.00		50.00		0.20	
209	INC	-108.04	0	-223.01	0	-901.19	0	-254.98	0	-213.86	0	93.77	94	nr	25	81.58	82	nr	75
210	INC	nr	75	-192.21	0	nr	50	nr	75	0.74	1	-323.19	0	-28.98	0	-13642.61	0	nr	25
211	INC	nr	25	-44.23	0	nr	75	nr	50	-43.80	0	83.61	84	-115.17	0	-951.02	0	nr	0
212	INC	nr	0	36.13	36	nr	0	nr	0	61.68	62	-689.04	0	-44.54	0	-917.31	0	nr	0
214	INC	96.64	97	35.45	35	89.14	89	47.30	47	-2225.59	0	nr	25	-305.40	0	-230.99	0	-237.84	0
216	INC	67.77	68	50.15	50	89.87	90	38.76	39	-254.00	0	nr	0	nr	75	-384.92	0	nr	0
221	INC	20.32	20	-5.42	0	-95.30	0	-31.44	0	-172.95	0	78.17	78	-41.03	0	-226.18	0	52.38	52
222	INC	nr	50	-597.56	0	-2747.28	0	nr	0	-2256.19	0	-256.01	0	-1425.98	0	-33.75	0	82.76	83
229	INC	nr	75	21.26	21	-76.35	0	-33.89	0	61.77	62	nr	75	nr	0	nr	75	96.38	96
324	INC	nr	50	-38.89	0	87.59	88	27.68	28	67.66	68	nr	0	nr	0	-59.91	0	nr	75
325	INC	76.94	77	-361.53	0	9.60	10	-152.27	0	-523.38	0	nr	75	-490.98	0	-383.87	0	nr	0
327	INC	99.23	99	-1094.70	0	-289.48	0	-200.94	0	-927.02	0	-638.11	0	3.94	4	-498.03	0	98.75	99
329	INC	nr	75	50.74	51	nr	75	nr	75	-374.75	0	-274.78	0	-102.15	0	-417.79	0	nr	50
330	INC	-27.88	0	64.37	64	76.47	76	-49.79	0	34.29	34	nr	0	nr	50	nr	0	99.25	99
331	INC	85.31	85	-87.50	0	97.84	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-191.97	0
332	INC	nr	25	87.30	87	nr	0	nr	0	13.13	13	93.04	93	nr	0	90.00	90	nr	75
333	INC	nr	0	-1053.82	0	nr	0	nr	50	42.40	42	-135.54	0	nr	0	-1018.45	0	nr	0
334	INC	-11.44	0	72.94	73	98.24	98	84.07	84	-109.38	0	nr	0	-146.46	0	32.52	33	89.47	89
337	INC	95.93	96	-6247.01	0	2.90	3	64.19	64	-9471.38	0	73.40	73	-53.62	0	-6480.76	0	nr	0
338	INC	88.99	89	-1099.99	0	-169.74	0	-5.63	0	-22288.80	0	-2617.49	0	-173.60	0	-2389.47	0	nr	0
339	INC	nr	75	-414.21	0	nr	25	nr	0	-91.67	0	-9966.49	0	-303.49	0	nr	0	nr	0
340	INC	35.30	35	-130.06	0	-817.42	0	-597.04	0	-99.81	0	nr	50	-209.62	0	-69.02	0	nr	75
341	INC	-614.53	0	-916.94	0	-478.44	0	-944.00	0	-2160.14	0	nr	0	nr	50	13.27	13	nr	50
342	INC	0.56	1	-316.97	0	-313.76	0	-3408.50	0	-15877.71	0	nr	75	nr	0	nr	0	nr	0
344	INC	nr	50	-826.62	0	-395.71	0	-16.98	0	-3569.67	0	nr	0	-178.75	0	-209.81	0	nr	25
346	INC	-2297.40	0	-1067.30	0	11.30	11	-553.14	0	-4344.22	0	nr	75	nr	0	-77.84	0	-63.93	0
347	INC	-29.07	0	-115.39	0	-658.24	0	-443.92	0	-2138.44	0	nr	0	nr	0	nr	0	-936.27	0
348	INC	nr	75	-1399.99	0	-824.71	0	-2435.15	0	-59821.89	0	-167.39	0	nr	0	-502.09	0	nr	75
349	INC	nr	0	-690.51	0	-114.45	0	nr	75	nr	50	nr	75	nr	0	-476.61	0	nr	0
350	INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-1385.22	0	nr	0
351	INC	nr	50	-68.16	0	nr	0	-645.40	0	nr	0	nr	50	nr	0	32.39	32	nr	50
353	INC	-65.16	0	30.81	31	20.30	20	32.99	33	nr	0	nr	0	nr	0	-214.55	0	-57.48	0
354	INC	-697.91	0	-141.54	0	-3272.96	0	-684.78	0	-5572.48	0	-14.29	0	nr	0	-1590.75	0	-2624.80	0
356	INC	nr	75	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	25	-1250.82	0	nr	75
357	INC	nr	75	38.53	39	nr	75	nr	0	-390.75	0	nr	0	nr	75	-354.30	0	nr	0
358	INC	nr	50	52.79	53	nr	50	nr	0	-1005.24	0	nr	75	nr	0	-3231.54	0	nr	0
359	INC	nr	75	19.91	20	84.57	85	99.85	100	-315.01	0	nr	0	nr	0	49.71	50	nr	0
400	INC	58.48	58	-152.37	0	89.32	89	27.87	28	nr	0	nr	75	nr	50	nr	0	nr	50
500	INC	-123.65	0	-767.27	0	-2717.13	0	-2249.06	0	-140.75	0	85.27	85	nr	0	nr	75	-430.50	0
502	INC	nr	50	57.14	57	93.67	94	-5.12	0	-59.17	0	nr	0	nr	0	nr	50	-796.86	0
503	INC	57.02	57	43.40	43	89.61	90	81.34	81	nr	0	nr	75	nr	0	nr	50	nr	75
504	INC	99.64	100	16.67	17	-106.12	0	46.56	47	-628.63	0	nr	0	nr	0	nr	0	nr	0
600	INC	nr	0	-100.00	0	nr	0	nr	50	-2746.99	0	nr	75	nr	0	nr	0	nr	0
700	INC	-48.90	0	65.40	65	99.69	100	88.65	89	-152.96	0	-1002.22	0	nr	0	nr	0	nr	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
701	INC	nr	75	65.22	65	nr	0	nr	75	-209.72	0	nr	0	-549.35	0	nr	0	nr	50
702	INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr	75
703	INC	nr	75	-400.00	0	nr	0	nr	0	89.70	90	nr	0	-1233.93	0	-4240.46	0	nr	0
704	INC	nr	0	23.08	23	nr	0	nr	0	78.37	78	nr	50	nr	0	-1042.24	0	nr	0
705	INC	47.99	48	43.74	44	52.88	53	32.84	33	-238.87	0	nr	0	nr	0	-1632.17	0	nr	75
706	INC	nr	75	64.87	65	nr	0	nr	0	-6211.60	0	nr	75	3.55	4	-25.75	0	-895.02	0
707	INC	nr	0	62.86	63	nr	75	nr	0	-559.36	0	nr	0	nr	0	99.28	99	nr	50
708	INC	nr	0	39.80	40	nr	0	nr	50	-4479.16	0	nr	75	nr	0	-473.71	0	nr	75
709	INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-291.04	0	-544.33	0	nr	0
710	INC	nr	50	45.78	46	nr	75	nr	0	63.05	63	99.10	99	60.53	61	-70.45	0	nr	0
711	INC	nr	0	47.67	48	nr	0	nr	0	-3874.02	0	nr	75	nr	50	-245.51	0	nr	75
712	INC	nr	0	30.97	31	-3458.83	0	-241.79	0	nr	0	nr	0	nr	0	nr	0	nr	0
713	INC	nr	75	77.78	78	nr	50	nr	0	-27.56	0	nr	75	nr	0	-2398.65	0	nr	75
714	INC	nr	0	18.48	18	nr	75	nr	0	33.34	33	nr	0	nr	0	-195.25	0	nr	50
725	INC	-313.63	0	24.62	25	-103.28	0	-69.64	0	-515.50	0	97.71	98	-185.71	0	-1110.45	0	3.85	4
726	INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	65.76	66	-147.16	0	nr	0
727	INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	97.29	97	97.74	98	nr	0
728	INC	nr	0	65.04	65	nr	0	nr	0	-8462.93	0	nr	75	nr	0	nr	0	nr	75
784	INC	nr	0	63.41	63	nr	75	nr	50	96.31	96	nr	0	nr	0	-1273.27	0	nr	0
805	INC	nr	0	73.50	73	nr	0	nr	0	nr	50	73.72	74	-4.12	0	85.39	85	nr	75
806	INC	95.77	96	66.47	66	85.41	85	-1025.54	0	24.67	25	nr	75	67.16	67	74.58	75	nr	0
807	INC	41.64	42	39.43	39	54.90	55	53.04	53	-1536.67	0	-349.69	0	-123.95	0	-831.18	0	42.53	43
808	INC	nr	0	-38.32	0	nr	75	nr	50	-7885.28	0	nr	0	nr	0	1.62	2	-29.87	0
809	INC	nr	50	nr	0	99.21	99	97.87	98	nr	0	nr	75	-13.61	0	95.94	96	nr	75
810	INC	nr	75	nr	0	94.52	95	86.54	87	nr	0	nr	0	nr	0	-221.89	0	nr	0
824	INC	-837.46	0	-134.37	0	-67.55	0	29.62	30	-1320.46	0	nr	75	nr	0	-487.13	0	nr	0
825	INC	nr	50	80.00	80	nr	0	nr	0	-1321.95	0	nr	0	nr	0	nr	75	nr	50
902	INC	85.72	86	28.23	28	-231.54	0	-725.08	0	-634.89	0	nr	0	-13.70	0	-26.92	0	-3167.97	0
904	INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	35.02	35	-9831.93	0	nr	0
905	INC	nr	0	nr	0	99.70	100	56.79	57	nr	0	nr	0	nr	0	-36.48	0	nr	25
906	INC	nr	75	77.68	78	nr	25	nr	75	75.64	76	nr	50	-147.78	0	-729.92	0	nr	75
914	INC	nr	0	-257.14	0	nr	0	nr	50	nr	25	91.71	92	nr	75	-1288.89	0	95.44	95
915	INC	nr	50	73.45	73	93.48	93	88.18	88	nr	0	nr	0	76.74	77	92.24	92	52.94	53

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
Floor Levels		5.00		0.03		60.00		80.00		60.00		1.00		5.00		50.00		0.20	
200	CK	33.76	34	-118.49	0	-11.18	0	75.85	76	-365.89	0	-12896.09	0	nr	50	nr	75	nr	25
201	CK	-151.33	0	-130.41	0	-50.56	0	73.25	73	-298.50	0	-24771.29	0	nr	75	nr	0	nr	75
202	CK	67.57	68	-25.37	0	33.56	34	-215.07	0	-374.52	0	-385.88	0	nr	25	nr	75	nr	0
203	CK	-11.62	0	-119.51	0	86.27	86	-236.48	0	30.76	31	-70.10	0	73.68	74	83.97	84	96.43	96
204	CK	61.79	62	0.26	0	84.04	84	-1362.77	0	-130000.40	0	-12137.22	0	nr	75	nr	75	64.91	65
205	CK	77.43	77	35.22	35	94.73	95	-366.92	0	-397.63	0	-532.00	0	77.74	78	68.68	69	-103.05	0
206	CK	59.01	59	-25.08	0	72.13	72	-984.03	0	3.33	3	-3047.41	0	58.59	59	65.82	66	82.61	83
207	CK	60.11	60	-31.99	0	79.05	79	-381.13	0	-1689.68	0	-341.44	0	nr	75	-55.04	0	-1150.00	0
208	CK	67.65	68	-108.75	0	12.33	12	-677.54	0	-1861.54	0	-455.75	0	nr	50	2.44	2	-4238.39	0
228	CK	nr	75	nr	0	nr	75	nr	0	nr	0	nr	0	70.41	70	91.26	91	2.44	0
300	CK	nr	75	58.04	58	96.03	96	-6.02	0	-133.28	0	-342.19	0	73.86	74	86.56	87	98.33	98
301	CK	94.24	94	23.80	24	-730.24	0	-453.52	0	-35034.62	0	-630.73	0	58.57	59	92.67	93	nr	75
302	CK	nr	0	-44.64	0	91.40	91	-355.66	0	-700.48	0	-176.54	0	nr	50	nr	50	nr	75
303	CK	77.10	77	-30.43	0	-199.20	0	-682.96	0	-1955.87	0	-1210.34	0	91.67	92	97.30	97	nr	0
304	CK	85.26	85	48.89	49	87.73	88	-130.78	0	-22535.67	0	-30004.93	0	nr	75	nr	75	88.89	89
305	CK	37.94	38	58.80	59	92.98	93	-212.74	0	25.45	25	-430.90	0	77.61	78	98.79	99	99.65	99
306	CK	99.81	100	-99.06	0	-367.57	0	-601.90	0	-3633.80	0	-669.23	0	nr	75	-6.16	0	-266.30	0
308	CK	nr	75	-36.36	0	15.76	16	-1139.78	0	-1621.71	0	-68.87	0	nr	50	nr	75	nr	75
309	CK	82.73	83	-25.78	0	87.03	87	-1843.95	0	-64.30	0	-1060.80	0	66.89	67	63.37	63	99.62	99
315	CK	nr	75	-2740.15	0	-413.88	0	-730.10	0	-3762.94	0	-5273.91	0	nr	50	nr	75	nr	75
316	CK	nr	50	-154.44	0	-1240.79	0	-1238.86	0	-196.56	0	-43.33	0	16.67	17	81.95	82	nr	75
317	CK	nr	75	-1230.87	0	-162.65	0	-296.42	0	-1653.41	0	-2574.16	0	91.04	91	85.27	85	83.87	84
318	CK	nr	75	-225.02	0	41.59	42	-401.89	0	-63.11	0	-1460.26	0	23.08	23	83.10	83	nr	75
319	CK	87.95	88	20.00	20	87.88	88	-46.20	0	-30.38	0	87.33	87	92.23	92	81.21	81	96.42	96
320	CK	nr	50	-899.98	0	-3311.75	0	-2000.16	0	-2653.29	0	37.65	38	95.02	95	97.60	98	-136.97	0
321	CK	nr	50	71.43	71	-1038.05	0	-1518.62	0	-1645.51	0	49.40	49	nr	50	nr	50	nr	0
322	CK	nr	0	-130.76	0	49.25	49	-258.34	0	-260.41	0	-534.67	0	32.43	32	91.99	92	92.54	93
323	CK	nr	50	-7.14	0	91.25	91	-15.59	0	6.12	6	-1427.98	0	52.38	52	91.95	92	94.44	94
335	CK	83.45	83	-48.08	0	89.12	89	-767.16	0	29.91	30	-221.34	0	71.86	72	67.34	67	99.20	99
401	CK	89.00	89	42.41	42	91.62	92	6.01	6	-261.48	0	-128.90	0	90.33	90	94.75	95	48.72	49
402	CK	79.26	79	43.93	44	97.77	98	12.79	13	-451.10	0	62.93	63	83.26	83	95.67	96	nr	0
403	CK	99.23	99	13.39	13	-152.84	0	-182.29	0	-13145.69	0	-5893.12	0	71.70	72	91.80	92	81.31	81
404	CK	-56.76	0	-528.18	0	-36.09	0	27.44	27	-10.95	0	14.22	14	68.51	69	93.02	93	77.88	78
405	CK	66.98	67	-36.56	0	92.04	92	67.60	68	-3224.52	0	-253.98	0	76.66	77	95.65	96	nr	50

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
Floor Levels		5.00		0.015		60.00		80.00		1300.00		2.50		5.00		50.00		0.20	
223	LWAK	82.09	82	-479.94	0	-1304.10	0	-124.69	0	19.94	20	-431.63	0	nr	50	nr	0	nr	0
224	LWAK	61.23	61	-427.20	0	-1893.38	0	-331.05	0	-179818.36	0	-669.78	0	nr	50	nr	75	nr	0
225	LWAK	-18.64	0	-4045.81	0	-8044.14	0	-692.88	0	-187.02	0	-2277.15	0	nr	50	nr	0	nr	0
226	LWAK	nr	50	-1385.13	0	nr	0	nr	0	nr	0	nr	0	nr	50	nr	75	nr	0
227	LWAK	66.76	67	-926.73	0	-287.87	0	-297.03	0	-13.96	0	-674.17	0	60.00	60	96.25	96	nr	0
307	LWAK	98.87	99	-38.09	0	-1282.19	0	-25.21	0	-7777.68	0	-465.77	0	nr	50	-10.30	0	nr	0
310	LWAK	59.85	60	6.25	6	76.47	76	-33.99	0	-44.98	0	-51.18	0	nr	50	nr	0	nr	0
311	LWAK	63.26	63	-150.00	0	82.22	82	-121.23	0	-41.49	0	54.85	55	nr	50	nr	75	nr	0
312	LWAK	34.12	34	-114.28	0	81.33	81	-126.36	0	-34.10	0	58.97	59	nr	50	nr	0	nr	0
313	LWAK	-1397.52	0	-150.00	0	82.36	82	72.82	73	-13.09	0	-438.64	0	nr	50	nr	75	nr	0
314	LWAK	77.97	78	42.18	42	95.20	95	60.57	61	-111.03	0	-71.55	0	nr	50	nr	0	nr	0
336	LWAK	nr	75	-84.34	0	nr	75	nr	0	nr	0	nr	0	nr	50	nr	75	-418.13	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
Floor Levels		5.00		0.015		60.00		80.00		25.00		1.00		5.00		50.00		0.20	
209	INC	-108.04	0	-223.01	0	-901.19	0	-254.98	0	-213.86	0	93.77	94	nr	25	81.58	82	nr	75
210	INC	nr	75	-192.21	0	nr	50	nr	75	0.74	1	-323.19	0	-28.98	0	-13642.61	0	nr	25
211	INC	nr	25	-44.23	0	nr	75	nr	50	-43.80	0	83.61	84	-115.17	0	-951.02	0	nr	0
212	INC	nr	0	36.13	36	nr	0	nr	0	61.68	62	-689.04	0	-44.54	0	-917.31	0	nr	0
214	INC	96.64	97	35.45	35	89.14	89	47.30	47	-2225.59	0	nr	25	-305.40	0	-230.99	0	-237.84	0
216	INC	67.77	68	50.15	50	89.87	90	38.76	39	-254.00	0	nr	0	nr	75	-384.92	0	nr	0
221	INC	20.32	20	-5.42	0	-95.30	0	-31.44	0	-172.95	0	78.17	78	-41.03	0	-226.18	0	52.38	52
222	INC	nr	50	-597.56	0	-2747.28	0	nr	0	-2256.19	0	-256.01	0	-1425.98	0	-33.75	0	82.76	83
229	INC	nr	75	21.26	21	-76.35	0	-33.89	0	61.77	62	nr	75	nr	0	nr	75	96.38	96
324	INC	nr	50	-38.89	0	87.59	88	27.68	28	67.66	68	nr	0	nr	0	-59.91	0	nr	75
325	INC	76.94	77	-361.53	0	9.60	10	-152.27	0	-523.38	0	nr	75	-490.98	0	-383.87	0	nr	0
327	INC	99.23	99	-1094.70	0	-289.48	0	-200.94	0	-927.02	0	-638.11	0	3.94	4	-498.03	0	98.75	99
329	INC	nr	75	50.74	51	nr	75	nr	75	-374.75	0	-274.78	0	-102.15	0	-417.79	0	nr	50
330	INC	-27.88	0	64.37	64	76.47	76	-49.79	0	34.29	34	nr	0	nr	50	nr	0	99.25	99
331	INC	85.31	85	-87.50	0	97.84	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-191.97	0
332	INC	nr	25	87.30	87	nr	0	nr	0	13.13	13	93.04	93	nr	0	90.00	90	nr	75
333	INC	nr	0	-1053.82	0	nr	0	nr	50	42.40	42	-135.54	0	nr	0	-1018.45	0	nr	0
334	INC	-11.44	0	72.94	73	98.24	98	84.07	84	-109.38	0	nr	0	-146.46	0	32.52	33	89.47	89
337	INC	95.93	96	-6247.01	0	2.90	3	64.19	64	-9471.38	0	73.40	73	-53.62	0	-6480.76	0	nr	0
338	INC	88.99	89	-1099.99	0	-169.74	0	-5.63	0	-22288.80	0	-2617.49	0	-173.60	0	-2389.47	0	nr	0
339	INC	nr	75	-414.21	0	nr	25	nr	0	-91.67	0	-9966.49	0	-303.49	0	nr	0	nr	0
340	INC	35.30	35	-130.06	0	-817.42	0	-597.04	0	-99.81	0	nr	50	-209.62	0	-69.02	0	nr	75
341	INC	-614.53	0	-916.94	0	-478.44	0	-944.00	0	-2160.14	0	nr	0	nr	50	13.27	13	nr	50
342	INC	0.56	1	-316.97	0	-313.76	0	-3408.50	0	-15877.71	0	nr	75	nr	0	nr	0	nr	0
344	INC	nr	50	-826.62	0	-395.71	0	-16.98	0	-3569.67	0	nr	0	-178.75	0	-209.81	0	nr	25
346	INC	-2297.40	0	-1067.30	0	11.30	11	-553.14	0	-4344.22	0	nr	75	nr	0	-77.84	0	-63.93	0
347	INC	-29.07	0	-115.39	0	-658.24	0	-443.92	0	-2138.44	0	nr	0	nr	0	nr	0	-936.27	0
348	INC	nr	75	-1399.99	0	-824.71	0	-2435.15	0	-59821.89	0	-167.39	0	nr	0	-502.09	0	nr	75
349	INC	nr	0	-690.51	0	-114.45	0	nr	75	nr	50	nr	75	nr	0	-476.61	0	nr	0
350	INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-1385.22	0	nr	0
351	INC	nr	50	-68.16	0	nr	0	-645.40	0	nr	0	nr	50	nr	0	32.39	32	nr	50
353	INC	-65.16	0	30.81	31	20.30	20	32.99	33	nr	0	nr	0	nr	0	-214.55	0	-57.48	0
354	INC	-697.91	0	-141.54	0	-3272.96	0	-684.78	0	-5572.48	0	-14.29	0	nr	0	-1590.75	0	-2624.80	0
356	INC	nr	75	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	25	-1250.82	0	nr	75
357	INC	nr	75	38.53	39	nr	75	nr	0	-390.75	0	nr	0	nr	75	-354.30	0	nr	0
358	INC	nr	50	52.79	53	nr	50	nr	0	-1005.24	0	nr	75	nr	0	-3231.54	0	nr	0
359	INC	nr	75	19.91	20	84.57	85	99.85	100	-315.01	0	nr	0	nr	0	49.71	50	nr	0
400	INC	58.48	58	-152.37	0	89.32	89	27.87	28	nr	0	nr	75	nr	50	nr	0	nr	50
500	INC	-123.65	0	-767.27	0	-2717.13	0	-2249.06	0	-140.75	0	85.27	85	nr	0	nr	75	-430.50	0
502	INC	nr	50	57.14	57	93.67	94	-5.12	0	-59.17	0	nr	0	nr	0	nr	50	-796.86	0
503	INC	57.02	57	43.40	43	89.61	90	81.34	81	nr	0	nr	75	nr	0	nr	50	nr	75
504	INC	99.64	100	16.67	17	-106.12	0	46.56	47	-628.63	0	nr	0	nr	0	nr	0	nr	0
600	INC	nr	0	-100.00	0	nr	0	nr	50	-2746.99	0	nr	75	nr	0	nr	0	nr	0
700	INC	-48.90	0	65.40	65	99.69	100	88.65	89	-152.96	0	-1002.22	0	nr	0	nr	0	nr	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
701	INC	nr	75	65.22	65	nr	0	nr	75	-209.72	0	nr	0	-549.35	0	nr	0	nr	50
702	INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr	75
703	INC	nr	75	-400.00	0	nr	0	nr	0	89.70	90	nr	0	-1233.93	0	-4240.46	0	nr	0
704	INC	nr	0	23.08	23	nr	0	nr	0	78.37	78	nr	50	nr	0	-1042.24	0	nr	0
705	INC	47.99	48	43.74	44	52.88	53	32.84	33	-238.87	0	nr	0	nr	0	-1632.17	0	nr	75
706	INC	nr	75	64.87	65	nr	0	nr	0	-6211.60	0	nr	75	3.55	4	-25.75	0	-895.02	0
707	INC	nr	0	62.86	63	nr	75	nr	0	-559.36	0	nr	0	nr	0	99.28	99	nr	50
708	INC	nr	0	39.80	40	nr	0	nr	50	-4479.16	0	nr	75	nr	0	-473.71	0	nr	75
709	INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-291.04	0	-544.33	0	nr	0
710	INC	nr	50	45.78	46	nr	75	nr	0	63.05	63	99.10	99	60.53	61	-70.45	0	nr	0
711	INC	nr	0	47.67	48	nr	0	nr	0	-3874.02	0	nr	75	nr	50	-245.51	0	nr	75
712	INC	nr	0	30.97	31	-3458.83	0	-241.79	0	nr	0	nr	0	nr	0	nr	0	nr	0
713	INC	nr	75	77.78	78	nr	50	nr	0	-27.56	0	nr	75	nr	0	-2398.65	0	nr	75
714	INC	nr	0	18.48	18	nr	75	nr	0	33.34	33	nr	0	nr	0	-195.25	0	nr	50
725	INC	-313.63	0	24.62	25	-103.28	0	-69.64	0	-515.50	0	97.71	98	-185.71	0	-1110.45	0	3.85	4
726	INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	65.76	66	-147.16	0	nr	0
727	INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	97.29	97	97.74	98	nr	0
728	INC	nr	0	65.04	65	nr	0	nr	0	-8462.93	0	nr	75	nr	0	nr	0	nr	75
784	INC	nr	0	63.41	63	nr	75	nr	50	96.31	96	nr	0	nr	0	-1273.27	0	nr	0
805	INC	nr	0	73.50	73	nr	0	nr	0	nr	50	73.72	74	-4.12	0	85.39	85	nr	75
806	INC	95.77	96	66.47	66	85.41	85	-1025.54	0	24.67	25	nr	75	67.16	67	74.58	75	nr	0
807	INC	41.64	42	39.43	39	54.90	55	53.04	53	-1536.67	0	-349.69	0	-123.95	0	-831.18	0	42.53	43
808	INC	nr	0	-38.32	0	nr	75	nr	50	-7885.28	0	nr	0	nr	0	1.62	2	-29.87	0
809	INC	nr	50	nr	0	99.21	99	97.87	98	nr	0	nr	75	-13.61	0	95.94	96	nr	75
810	INC	nr	75	nr	0	94.52	95	86.54	87	nr	0	nr	0	nr	0	-221.89	0	nr	0
824	INC	-837.46	0	-134.37	0	-67.55	0	29.62	30	-1320.46	0	nr	75	nr	0	-487.13	0	nr	0
825	INC	nr	50	80.00	80	nr	0	nr	0	-1321.95	0	nr	0	nr	0	nr	75	nr	50
902	INC	85.72	86	28.23	28	-231.54	0	-725.08	0	-634.89	0	nr	0	-13.70	0	-26.92	0	-3167.97	0
904	INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	35.02	35	-9831.93	0	nr	0
905	INC	nr	0	nr	0	99.70	100	56.79	57	nr	0	nr	0	nr	0	-36.48	0	nr	25
906	INC	nr	75	77.68	78	nr	25	nr	75	75.64	76	nr	50	-147.78	0	-729.92	0	nr	75
914	INC	nr	0	-257.14	0	nr	0	nr	50	nr	25	91.71	92	nr	75	-1288.89	0	95.44	95
915	INC	nr	50	73.45	73	93.48	93	88.18	88	nr	0	nr	0	76.74	77	92.24	92	52.94	53

TABLE C-10c. CHARACTERIZATION OF ATF MODEL PLANTS, OPTION 2A, 25%FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
CK	Group 12	Add AB + WQ + CI + FF	2	200	S	Giant	FF	123,584	147,000	
			1	207 *	S	Keystone	MC/ESP	90,681	147,000	
			2	300	S	Essroc	ESP	164,692	147,000	
			1	301	S	Essroc	FF	185,409	147,000	
			2	302 *	S	Lafarge	ESP	130,576	147,000	
			3	308 *	S	North Texas	ESP	162,599	147,000	
			1	315 *	S	Southdown	FF	102,042	147,000	
			4	318 *	S	Texas Industries	ESP	152,675	147,000	
			1	401	S	Ash Grove	ESP	172,481	147,000	
			1	403	S	Ash Grove	ESP	184,877	147,000	
			1	405	S	Ash Grove	ESP	194,905	147,000	
			1	202 *	L	Heartland	FF	221,421	370,000	
			1	204 *	L	Holnam	ESP	693,613	370,000	
			1	205	L	Holnam	ESP	253,556	370,000	
			1	208	L	Keystone	ESP	307,644	370,000	
			1	303	L	Lone Star	MC/FF	408,681	370,000	
			1	304 *	L	Lone Star	ESP	300,367	370,000	
			1	306 *	L	National	MC/FF	280,868	370,000	
			1	309	L	River Cement	MC/ESP	665,839	370,000	
			1	316 *	L	Southdown	FF	nr	370,000	
			1	317	L	Southdown	FF	422,190	370,000	
	Group 13	Add AB + WQ + CI + FF + PT	2	305 *	S	Medusa	ESP	196,903	147,000	85
			1	321 *	S	Lafarge	ESP	59,542	147,000	85
			1	323	S	Lafarge	FF	185,409	147,000	85
			1	335	S	Medusa	ESP	100,378	147,000	85
			1	402	S	Ash Grove	ESP	187,605	147,000	85
			1	203	L	Holnam	ESP	291,645	370,000	85
			1	206	L	Holnam	ESP	348,510	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
			3	320 *	L	Lafarge	FF	nr	370,000	85
	Group 14	Moderate DOM on FF + Add AB + WQ	2	201 *	S	Giant	FF	137,945	147,000	
	Group 24	Add AB + WQ + FF	1	228 *	S	Ash Grove	ESP	148,537	147,000	
	Group 26	Add AB + WQ + IWS	1	404	L	Ash Grove	ESP	265,721	370,000	85
	Group 27	Moderate DOM on ESP + Add AB + WQ	1	322	S	Lafarge	ESP	112,269	147,000	
LWAK	Group 9	Add AB + WQ + CI + FF	1	227	M	Solite	FF	38,796	40,500	
			1	224 *	M	Solite	FF	39,049	40,500	
			1	226 *	M	Solite	FF	nr	40,500	
			2	307 *	M	Norlite	FF/VS	49,050	40,500	
			1	310 *	M	Solite	FF	47,770	40,500	
			1	314 *	M	Solite	FF	36,793	40,500	
			1	336 *	M	Solite	FF	30,336	40,500	
	Group 11	Add AB + WQ + CI + FF + ST	1	223 *	M	Solite	FF	29,092	40,500	1,570
			1	311 *	M	Solite	FF	51,627	40,500	1,570
			1	312 *	M	Solite	FF	47,698	40,500	1,570
	Group 12	Add AB + WQ	1	225 *	M	Solite	FF	38,270	40,500	
	Group 16	Add AB + WQ + FF	1	313 *	M	Solite	FF	36,793	40,500	

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
INC	Group 1	None	1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
			1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
	Group 2	Add PT	1	500	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92
	Group 4	Add IWS	2	349 *	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
			1	704	S	Ashland	NONE	5,011	3,900	92
			1	600 *	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
			1	350 *	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
	Group 6	Add FF	1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	Moderate DOM on existing FF & WS	1	212	L	LWD	FF/S	44,610	60,800	
	Group 8	Add CI	1	222	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
			1	338	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add RH + CI + FF	1	344 *	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	701 *	M	Eli Lilly	VS/PT	9,208	22,100	
			1	705	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	
			1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
			1	810 *	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	329 *	L	Dupont	PT/IWS	53,489	60,800	
	Group 10	Add WQ + CB + FF	1	709 *	S	Cargill Chemical	NONE	3,123	3,900	
	Group 13	Add RH + CI + FF + PT	1	708 *	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
			1	713 *	S	Pfizer	VS/PT	2,625	3,900	92
			1	725	S	Zeneca	WS/QT	1,489	3,900	92
			1	324 *	M	Allied	?	12,120	22,100	92
			1	358 *	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	702 *	M	Dupont	QT/S/C	nr	22,100	92
			1	211 *	L	LWD	SS/PT/VS	43,596	60,800	92
			1	221	L	Rollins	PT	51,114	60,800	92
			1	331 *	L	Ross	PT/IWS	44,379	60,800	92
	Group 14	Moderate DOM on existing SD & FF	1	333 *	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	Moderate DOM on existing FF + PT + CI	1	325 *	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92
	Group 17	Moderate DOM on existing ESP	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
	Group 20	Add WQ + CB + PT	1	703 *	S	Aristech	WHB	1,873	3,900	92
	Group 21	Add AB + FF	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
	Group 23	Moderate DOM on combustor & VS + Add PT	1	824 *	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92
	Group 24	Moderate DOM on combustor + Add RH + CI + FF + PT	1	356 *	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	726 *	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	706 *	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
			1	710 *	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	711 *	L	Chevron Chemical	C/VS/AS	52,907	60,800	92

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
	Group 25	Add AB + RH + CI + FF	1	502 *	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	
			1	357 *	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	825 *	M	General Electric	CCS/QC/ESP	21,363	22,100	
			1	915	M	Eastman Kodak	QC/VS/C	nr	22,100	
			1	216 *	L	Rollins	HES/WS	40,002	60,800	
			1	707 *	L	Dupont	QT/WS	58,120	60,800	
	Group 28	Moderate DOM on ESP + RH + CB	1	339 *	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
	Group 29	Small DOM on existing IWS + Add RH + CI+FF	1	214 *	M	Rollins	IWS	34,655	22,100	
			1	210 *	L	LWD	FF/S	96,107	60,800	
	Group 32	Add RH + CB	1	348 *	S	Occidental Chemical	QC/AS/IWS	nr	3,900	
	Group 33	Moderate DOM on combustor + Add IWS	1	784	S	Cook Composites	NONE	nr	3,900	92
	Group 37	Moderate DOM on existing VS + Add RH + CB + PT	1	728 *	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
	Group 38	Moderate DOM on combustor + Add IWS + CI	1	503 *	S	Lake City Army Ammo Plat	HTHE/LTHE/FF	4,747	3,900	92
			1	400 *	L	Marine Shale	SD/FF	179,333	60,800	92
	Group 39	Add AB + RH + CI + FF + PT	1	332 *	M	Thermalkem	WS	20,208	22,100	92
			1	805 *	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	92
			1	806 *	M	Amoco Oil	C/VS	20,641	22,100	92
			1	914 *	M	Vertac Superfund	?	25,849	22,100	92
			1	809 *	L	Tennessee Eastman	VS	40,524	60,800	92
	Group 40	Add RH + CB + PT	1	342 *	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92
	Group 42	Add RH + CB + IWS	1	906 *	S	Monsanto	QT/PT	2,738	3,900	92
	Group 43	Add AB + RH + CB + IWS	1	229 *	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92
	Group 44	Moderate DOM on existing WS + Add RH + CI + FF	2	714 *	M	Olin Chemical	WS	19,185	22,100	
	Group 46	Moderate DOM on combustor + Add CI + PT	1	351 *	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
	Group 52	Add AB + WQ + PT	1	209 *	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 53	Moderate DOM on combustor + Add CI	1	341 *	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	327	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
	Group 54	Moderate DOM on combustor + Add RH + CI + FF	1	905 *	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	359 *	M	Atochem	WHB/FF/S	13,802	22,100	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	
	Group 55	Moderate DOM on combustor + Add FF	1	904 *	S	First Chemical	?	5,950	3,900	
			1	808 *	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
	Group 56	Moderate DOM on combustor & WS + Add RH + CI + FF	1	330 *	M	General Electric	QT/WS/DM	10,345	22,100	
	Group 58	Moderate DOM on existing FF & DI + Add CI	2	337	M	Olin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 59	Moderate DOM on WS + Add WQ + CI	1	340 *	M	Miles	WHB/ESP/WS	16,003	22,100	92
	Group 60	Small DOM on existing VS + Add PT	1	346 *	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribution of reported values from other facilities.

** Reported Ratio is equal to the number of total units located at a site divided by the number of units for which information was reported.

Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units.

nr = not reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 12	S	Add Q, CI, FF, AB	19	$3,825K	$4,318K	$4,781K
		L		10	$7,437K	$10,098K	$10,980K
	Group 13	S	Add Q, CI, FF, AB, PT	6	$4,726K	$4,648K	$5,258K
		L		6	$9,371K	$10,782K	$11,979K
	Group 14	S	Moderate DOM on existing FF, Add Q, AB	2	$1,339K	$3,641K	$3,805K
	Group 24	S	Add AB, Q, FF	1	$3,354K	$3,954K	$4,356K
	Group 26	L	Add AB, Q, IWS	1	$6,189K	$9,355K	$10,306K
	Group 27	S	Moderate DOM on existing ESP, Add AB, Q	1	$2,971K	$3,749K	$4,139K
LWAK	Group 9	M	Add AB, Q, CI, FF	8	$1,883K	$1,615K	$1,850K
	Group 11	M (hi HCl)	Add AB, Q, CI, FF, ST	3	$3,112K	$1,944K	$2,380K
	Group 12	M	Add AB, Q	1	$809K	$1,264K	$1,371K
	Group 16	M	Add AB, Q, FF	1	$1,470K	$1,425K	$1,606K
Incinerators	Group 1	M	None	2	$0K	$0K	$0K
	Group 2	L	Add PT	1	$445K	$195K	$267K
	Group 4	S	Add IWS	3	$215K	$97K	$132K
		L		1	$1,331K	$228K	$445K
	Group 6	M	Add FF	2	$295K	$121K	$154K
		L		1	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
	Group 8	L	Add CI/CB	2	$425K	$224K	$280K
	Group 9	M	Add RH, CI/CB, FF	7	$932K	$391K	$508K
		L		1	$1,681K	$672K	$876K
	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
	Group 13	S	Add PT, RH, CI/CB, FF	3	$632K	$331K	$414K
		M		3	$1,137K	$515K	$665K
		L		3	$2,126K	$866K	$1,143K
	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	1	$620K	$278K	$364K
	Group 17	M	DOM ESP mod	1	$535K	$50K	$120K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
(cont.)	Group 23	S	DOM VS mod, DOM Combustor, Add PT	1	$185K	$96K	$128K
	Group 24	S	DOM combustor, Add PT,RH,CI/CB,FF	2	$749K	$331K	$433K
		M		2	$1,291K	$515K	$690K
		L		1	$2,312K	$866K	$1,173K
	Group 25	S	Add AB,RH,CI/CB,FF	1	$840K	$433K	$542K
		M		3	$1,349K	$924K	$1,096K
		L		2	$2,223K	$1,947K	$2,223K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$178K	$267K
	Group 29	M	DOM IWS small, Add RH,CI/CB,FF	1	$972K	$403K	$528K
		L		1	$1,782K	$702K	$925K
	Group 32	S	Add RH, CB/CI	1	$493K	$152K	$216K
	Group 33	S	DOM Combustor, Add IWS	1	$331K	$97K	$151K
	Group 37	S	Moderate DOM on existng VS, Add RH, CI/CB, PT	1	$561K	$248K	$326K
	Group 38	S	Moderate DOM on Combustor, Add CI/CB, IWS	1	$672K	$188K	$287K
		L		1	$1,941K	$452K	$755K
	Group 39	M	Add RH, CI/CB, FF, PT, AB	4	$1,554K	$1,048K	$1,253K
		L		1	$2,669K	$2,142K	$2,490K
	Group 40	S	Add RH, CI/CB, PT	1	$550K	$242K	$316K
	Group 42	S	Add RH, CI/CB, IWS	1	$708K	$249K	$348K
	Group 43	S	Add RH, CI/CB, IWS, AB	1	$973K	$441K	$576K
	Group 44	M	Add AB, CI/CB	2	$1,493K	$825K	$1,042K
	Group 46	S	Moderate DOM on Combustor, Add CI/CB, PT	1	$514K	$181K	$254K
	Group 52	M	Add AB, Q, PT	1	$899K	$706K	$830K
	Group 53	M	Moderate DOM on Combustor, Add CI/CB	1	$551K	$147K	$225K
		L		1	$610K	$224K	$310K
	Group 54	S	Moderate DOM on Combustor, Add RH, CI/CB, FF	1	$691K	$241K	$334K
		M		1	$1,087K	$391K	$533K
		L		1	$1,866K	$672K	$906K
	Group 55	S	Moderate DOM on Combustor, Add FF	1	$198K	$89K	$117K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators		M		1	$450K	$121K	$179K
(cont.)	Group 56	M	Moderate DOM on WS, Combustor, Add RH, CI/CB, FF	1	$1,158K	$405K	$566K
	Group 58	M	Moderate DOM on existing FF and DI, Add CI/CB	2	$778K	$174K	$286K
	Group 59	M	Moderate DOM on existing WS, Add CI/CB, Q	1	$746K	$210K	$317K
	Group 60	M	Small DOM on existing VS, Add PT	1	$244K	$137K	$178K

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj % Reduct
Floor Levels		5.00		0.03		60.00		80.00		60.00		1.00		20.00		na		0.20	
200	CK	50.32	50	-118.49	0	11.79	12	79.20	79	-259.90	0	-9939.48	0	nr	50	na	na	nr	25
201	CK	-88.50	0	-130.41	0	-19.45	0	76.95	77	-207.84	0	-19113.07	0	nr	0	na	na	nr	75
202	CK	75.67	76	-25.37	0	47.29	47	-171.43	0	-266.57	0	-275.34	0	nr	25	na	na	nr	0
203	CK	16.29	16	-119.51	0	89.11	89	-189.88	0	46.51	47	-31.41	0	-5.26	0	na	na	96.43	96
204	CK	71.34	71	0.26	0	87.34	87	-1160.17	0	-100402.56	0	-9353.25	0	nr	0	na	na	64.91	65
205	CK	83.07	83	35.22	35	95.82	96	-302.25	0	-284.42	0	-388.22	0	10.95	11	na	na	-103.05	0
206	CK	69.25	69	-25.08	0	77.89	78	-833.89	0	25.32	25	-2331.38	0	-65.62	0	na	na	82.61	83
207	CK	70.08	70	-31.99	0	83.38	83	-314.49	0	-1282.53	0	-241.01	0	nr	0	na	na	-1150.00	0
208	CK	75.74	76	-108.75	0	30.45	30	-569.85	0	-1415.29	0	-329.31	0	nr	0	na	na	-4238.39	0
228	CK	nr	75	nr	0	nr	75	nr	0	nr	0	nr	0	-18.34	0	na	na	2.44	0
300	CK	nr	75	58.04	58	96.85	97	8.66	9	-80.21	0	-241.59	0	-4.58	0	na	na	98.33	98
301	CK	95.68	96	23.80	24	-558.71	0	-376.85	0	-27041.50	0	-464.49	0	-65.70	0	na	na	nr	75
302	CK	nr	50	-44.64	0	93.18	93	-292.55	0	-518.37	0	-113.63	0	nr	0	na	na	nr	75
303	CK	82.82	83	-30.43	0	-137.38	0	-574.52	0	-1488.16	0	-912.24	0	66.67	67	na	na	nr	0
304	CK	88.94	89	48.89	49	90.27	90	-98.82	0	-17386.05	0	-23156.06	0	nr	0	na	na	88.89	89
305	CK	53.45	53	58.80	59	94.43	94	-169.43	0	42.41	42	-310.12	0	10.42	10	na	na	99.65	99
306	CK	99.86	100	-99.06	0	-270.97	0	-504.69	0	-2784.36	0	-494.23	0	nr	0	na	na	-266.30	0
308	CK	nr	75	-36.36	0	33.16	33	-968.07	0	-1230.02	0	-30.46	0	nr	25	na	na	nr	75
309	CK	87.05	87	-25.78	0	89.71	90	-1574.72	0	-26.92	0	-796.72	0	-32.45	0	na	na	99.62	99
315	CK	nr	75	-2740.15	0	-307.71	0	-615.13	0	-2884.12	0	-4051.35	0	nr	50	na	na	nr	75
316	CK	nr	50	-154.44	0	-963.78	0	-1053.42	0	-129.09	0	-10.72	0	-233.33	0	na	na	nr	75
317	CK	nr	75	-1230.87	0	-108.38	0	-241.51	0	-1254.51	0	-1965.79	0	64.17	64	na	na	83.87	84
318	CK	nr	75	-225.02	0	53.66	54	-332.38	0	-26.00	0	-1105.30	0	-207.69	0	na	na	nr	75
319	CK	90.96	91	20.00	20	90.38	90	-25.95	0	-0.72	0	90.21	90	68.94	69	na	na	96.42	96
320	CK	nr	75	-899.98	0	-2606.88	0	-1709.29	0	-2026.92	0	51.83	52	80.10	80	na	na	-136.97	0
321	CK	nr	50	71.43	71	-802.93	0	-1294.44	0	-1248.40	0	60.91	61	nr	50	na	na	nr	0
322	CK	nr	0	-130.76	0	59.73	60	-208.71	0	-178.41	0	-390.28	0	-170.27	0	na	na	92.54	93
323	CK	nr	75	-7.14	0	93.06	93	0.42	0	27.48	27	-1080.36	0	-90.48	0	na	na	94.44	94
335	CK	87.59	88	-48.08	0	91.37	91	-647.06	0	45.86	46	-148.24	0	-12.55	0	na	na	99.20	99
401	CK	91.75	92	42.41	42	93.35	93	19.03	19	-179.24	0	-76.83	0	61.33	61	na	na	48.72	49
402	CK	84.44	84	43.93	44	98.23	98	24.87	25	-325.73	0	71.36	71	33.05	33	na	na	nr	0
403	CK	99.43	99	13.39	13	-100.61	0	-143.20	0	-10132.30	0	-4529.68	0	-13.19	0	na	na	81.31	81
404	CK	-17.57	0	-528.18	0	-7.97	0	37.49	37	14.29	14	33.74	34	-25.96	0	na	na	77.88	78
405	CK	75.23	75	-36.56	0	93.69	94	72.09	72	-2468.19	0	-173.45	0	6.65	7	na	na	nr	50

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj % Reduct
Floor Levels		5.00		0.015		60.00		80.00		1300.00		2.50		5.00		50.00		0.20	
223	LWAK	83.87	84	-479.94	0	-962.76	0	-124.69	0	39.86	40	-299.36	0	nr	50	nr	0	nr	0
224	LWAK	65.09	65	-427.20	0	-1408.79	0	-331.05	0	-135054.67	0	-478.26	0	nr	50	nr	75	nr	0
225	LWAK	-6.84	0	-4045.81	0	-6064.30	0	-692.88	0	-115.61	0	-1685.71	0	nr	50	nr	0	nr	0
226	LWAK	nr	50	-1385.13	0	nr	0	nr	0	nr	0	nr	0	nr	50	nr	75	nr	0
227	LWAK	70.07	70	-926.73	0	-193.58	0	-297.03	0	14.39	14	-481.55	0	60.00	60	96.25	96	nr	0
307	LWAK	98.98	99	-38.09	0	-946.18	0	-25.21	0	-5817.72	0	-325.01	0	nr	50	-10.30	0	nr	0
310	LWAK	63.85	64	6.25	6	82.19	82	-33.99	0	-8.91	0	-13.57	0	nr	50	nr	0	nr	0
311	LWAK	66.92	67	-150.00	0	86.54	87	-121.23	0	-6.29	0	66.08	66	nr	50	nr	75	nr	0
312	LWAK	40.68	41	-114.28	0	85.87	86	-126.36	0	-0.73	0	69.18	69	nr	50	nr	0	nr	0
313	LWAK	-1248.51	0	-150.00	0	86.65	87	72.82	73	15.04	15	-304.63	0	nr	50	nr	75	nr	0
314	LWAK	80.16	80	42.18	42	96.37	96	60.57	61	-58.52	0	-28.87	0	nr	50	nr	0	nr	0
336	LWAK	nr	75	-84.34	0	nr	75	nr	0	nr	0	nr	0	nr	50	nr	75	-418.13	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj % Reduct
Floor Levels		5.00		0.015		60.00		80.00		25.00		1.00		5.00		50.00		0.20	0
209	INC	-56.03	0	-223.01	0	-650.89	0	-254.98	0	-135.39	0	95.33	95	nr	25	81.58	82	nr	75
210	INC	nr	0	-192.21	0	nr	50	nr	75	25.55	26	-217.40	0	-28.98	0	-13642.61	0	nr	25
211	INC	nr	50	-44.23	0	nr	75	nr	50	-7.85	0	87.71	88	-115.17	0	-951.02	0	nr	0
212	INC	nr	75	36.13	36	nr	0	nr	0	71.26	71	-491.78	0	-44.54	0	-917.31	0	nr	0
214	INC	97.48	97	35.45	35	91.85	92	47.30	47	-1644.19	0	nr	25	-305.40	0	-230.99	0	-237.84	0
216	INC	75.83	76	50.15	50	92.40	92	38.76	39	-165.50	0	nr	0	nr	75	-384.92	0	nr	0
221	INC	40.24	40	-5.42	0	-46.48	0	-31.44	0	-104.71	0	83.63	84	-41.03	0	-226.18	0	52.38	52
222	INC	nr	50	-597.56	0	-2035.46	0	nr	0	-1667.15	0	-167.01	0	-1425.98	0	-33.75	0	82.76	83
229	INC	nr	75	21.26	21	-32.26	0	-33.89	0	71.33	71	nr	75	nr	0	nr	75	96.38	96
324	INC	nr	50	-38.89	0	90.69	91	27.68	28	75.75	76	nr	0	nr	0	-59.91	0	nr	75
325	INC	82.70	83	-361.53	0	32.20	32	-152.27	0	-367.54	0	nr	75	-490.98	0	-383.87	0	nr	0
327	INC	99.42	99	-1094.70	0	-192.11	0	-200.94	0	-670.26	0	-453.59	0	3.94	4	-498.03	0	98.75	99
329	INC	nr	75	50.74	51	nr	75	nr	75	-256.06	0	-181.09	0	-102.15	0	-417.79	0	nr	50
330	INC	4.09	4	64.37	64	82.35	82	-49.79	0	50.72	51	nr	0	nr	50	nr	0	99.25	99
331	INC	88.98	89	-87.50	0	98.38	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-191.97	0
332	INC	nr	25	87.30	87	nr	0	nr	0	34.85	35	94.78	95	nr	0	90.00	90	nr	75
333	INC	nr	0	-1053.82	0	nr	0	nr	50	56.80	57	-76.65	0	nr	0	-1018.45	0	nr	0
334	INC	16.42	16	72.94	73	98.68	99	84.07	84	-57.03	0	nr	0	-146.46	0	32.52	33	89.47	89
337	INC	96.95	97	-6247.01	0	27.17	27	64.19	64	-7078.53	0	80.05	80	-53.62	0	-6480.76	0	nr	0
338	INC	91.74	92	-1099.99	0	-102.30	0	-5.63	0	-16691.60	0	-1938.12	0	-173.60	0	-2389.47	0	nr	0
339	INC	nr	75	-414.21	0	nr	50	nr	0	-43.75	0	-7449.86	0	-303.49	0	nr	0	nr	0
340	INC	51.48	51	-130.06	0	-588.07	0	-597.04	0	-49.86	0	nr	75	-209.62	0	-69.02	0	nr	75
341	INC	-435.90	0	-916.94	0	-333.83	0	-944.00	0	-1595.10	0	nr	0	nr	50	13.27	13	nr	50
342	INC	25.42	25	-316.97	0	-210.32	0	-3408.50	0	-11883.28	0	nr	75	nr	0	nr	0	nr	0
344	INC	nr	50	-826.62	0	-271.78	0	-16.98	0	-2652.25	0	nr	0	-178.75	0	-209.81	0	nr	25
346	INC	-1698.05	0	-1067.30	0	33.47	33	-553.14	0	-3233.16	0	nr	75	nr	0	-77.84	0	-63.93	0
347	INC	3.20	3	-115.39	0	-468.68	0	-443.92	0	-1578.83	0	nr	0	nr	0	nr	0	-936.27	0
348	INC	nr	75	-1399.99	0	-593.53	0	-2435.15	0	-44841.42	0	-100.54	0	nr	0	-502.09	0	nr	75
349	INC	nr	0	-690.51	0	-60.84	0	nr	75	nr	50	nr	75	nr	0	-476.61	0	nr	0
350	INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-1385.22	0	nr	0
351	INC	nr	50	-68.16	0	nr	0	-645.40	0	nr	0	nr	75	nr	0	32.39	32	nr	50
353	INC	-23.87	0	30.81	31	40.23	40	32.99	33	nr	0	nr	0	nr	0	-214.55	0	-57.48	0
354	INC	-498.43	0	-141.54	0	-2429.72	0	-684.78	0	-4154.36	0	14.29	14	nr	0	-1590.75	0	-2624.80	0
356	INC	nr	75	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	25	-1250.82	0	nr	75
357	INC	nr	75	38.53	39	nr	75	nr	0	-268.06	0	nr	0	nr	75	-354.30	0	nr	0
358	INC	nr	50	52.79	53	nr	50	nr	0	-728.93	0	nr	75	nr	0	-3231.54	0	nr	0
359	INC	nr	75	19.91	20	88.43	88	99.85	100	-211.26	0	nr	0	nr	0	49.71	50	nr	0
400	INC	68.86	69	-152.37	0	91.99	92	27.87	28	nr	0	nr	75	nr	50	nr	0	nr	50
500	INC	-67.73	0	-767.27	0	-2012.85	0	-2249.06	0	-80.57	0	88.95	89	nr	0	nr	0	-430.50	0
502	INC	nr	50	57.14	57	95.25	95	-5.12	0	-19.38	0	nr	0	nr	0	nr	75	-796.86	0
503	INC	67.77	68	43.40	43	92.20	92	81.34	81	nr	0	nr	75	nr	0	nr	50	nr	75
504	INC	99.73	100	16.67	17	-54.59	0	46.56	47	-446.47	0	nr	0	nr	0	nr	0	nr	0
600	INC	nr	25	-100.00	0	nr	0	nr	50	-2035.24	0	nr	75	nr	0	nr	0	nr	0
700	INC	-11.67	0	65.40	65	99.77	100	88.65	89	-89.72	0	-726.66	0	nr	0	nr	0	nr	0
701	INC	nr	75	65.22	65	nr	0	nr	75	-132.29	0	nr	0	-549.35	0	nr	0	nr	50
702	INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr	75
703	INC	nr	75	-400.00	0	nr	0	nr	0	92.28	92	nr	0	-1233.93	0	-4240.46	0	nr	0
704	INC	nr	25	23.08	23	nr	0	nr	0	83.78	84	nr	75	nr	0	-1042.24	0	nr	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj % Reduct
705	INC	61.00	61	43.74	44	64.66	65	32.84	33	-154.15	0	nr	0	nr	0	-1632.17	0	nr	75
706	INC	nr	75	64.87	65	nr	0	nr	0	-4633.70	0	nr	75	3.55	4	-25.75	0	-895.02	0
707	INC	nr	0	62.86	63	nr	75	nr	0	-394.52	0	nr	0	nr	0	99.28	99	nr	50
708	INC	nr	0	39.80	40	nr	0	nr	50	-3334.37	0	nr	75	nr	0	-473.71	0	nr	75
709	INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-291.04	0	-544.33	0	nr	0
710	INC	nr	50	45.78	46	nr	75	nr	0	72.29	72	99.33	99	60.53	61	-70.45	0	nr	0
711	INC	nr	25	47.67	48	nr	0	nr	0	-2880.51	0	nr	75	nr	50	-245.51	0	nr	75
712	INC	nr	0	30.97	31	-2569.12	0	-241.79	0	nr	0	nr	0	nr	0	nr	0	nr	0
713	INC	nr	75	77.78	78	nr	50	nr	0	4.33	4	nr	75	nr	0	-2398.65	0	nr	75
714	INC	nr	0	18.48	18	nr	75	nr	0	50.00	50	nr	0	nr	0	-195.25	0	nr	50
725	INC	-210.22	0	24.62	25	-52.46	0	-69.64	0	-361.62	0	98.28	98	-185.71	0	-1110.45	0	3.85	4
726	INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	65.76	66	-147.16	0	nr	0
727	INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	97.29	97	97.74	98	nr	0
728	INC	nr	0	65.04	65	nr	0	nr	0	-6322.20	0	nr	75	nr	0	nr	0	nr	75
784	INC	nr	0	63.41	63	nr	75	nr	50	97.23	97	nr	0	nr	25	-1273.27	0	nr	0
805	INC	nr	0	73.50	73	nr	0	nr	0	nr	50	80.29	80	-4.12	0	85.39	85	nr	75
806	INC	96.83	97	66.47	66	89.06	89	-1025.54	0	43.50	44	nr	75	67.16	67	74.58	75	nr	0
807	INC	56.23	56	39.43	39	66.18	66	53.04	53	-1127.50	0	-237.27	0	-123.95	0	-831.18	0	42.53	43
808	INC	nr	25	-38.32	0	nr	75	nr	50	-5888.96	0	nr	0	nr	0	1.62	2	-29.87	0
809	INC	nr	50	nr	0	99.41	99	97.87	98	nr	0	nr	75	-13.61	0	95.94	96	nr	75
810	INC	nr	75	nr	0	95.89	96	86.54	87	nr	0	nr	0	nr	0	-221.89	0	nr	0
824	INC	-603.10	0	-134.37	0	-25.66	0	29.62	30	-965.34	0	nr	75	nr	50	-487.13	0	nr	0
825	INC	nr	50	80.00	80	nr	0	nr	0	-966.47	0	nr	0	nr	0	nr	75	nr	50
902	INC	89.29	89	28.23	28	-148.65	0	-725.08	0	-451.17	0	nr	0	-13.70	0	-26.92	0	-3167.97	0
904	INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	35.02	35	-9831.93	0	nr	0
905	INC	nr	0	nr	0	99.77	100	56.79	57	nr	0	nr	0	nr	50	-36.48	0	nr	25
906	INC	nr	75	77.68	78	nr	50	nr	75	81.73	82	nr	25	-147.78	0	-729.92	0	nr	75
914	INC	nr	0	-257.14	0	nr	0	nr	50	nr	75	93.78	94	nr	75	-1288.89	0	95.44	95
915	INC	nr	75	73.45	73	95.11	95	88.18	88	nr	50	nr	0	76.74	77	92.24	92	52.94	53

EER Site ID No.	Type	Current APCD	% Emission Reduction Required to Meet Option 2B with 0% Feed Redction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	D/F		
200	CK	FF	50	0	12	79	0	0	0	na	25	5	Add Q + CI + FF
201	CK	FF	0	0	0	77	0	0	0	na	75	18	Add Q + FF
202	CK	FF	76	0	47	0	0	0	0	na	0	4	Add CI + FF
203	CK	ESP	16	0	89	0	47	0	0	na	96	16	Add Q + CI + FF + PT
204	CK	ESP	71	0	87	0	0	0	0	na	65	5	Add CI + FF
205	CK	ESP	83	35	96	0	0	0	0	na	0	4	Add CI + FF
206	CK	ESP	69	0	78	0	25	0	0	na	83	16	Add Q + CI + FF + PT
207	CK	MC/ESP	70	0	83	0	0	0	0	na	0	4	Add CI + FF
208	CK	ESP	76	0	30	0	0	0	0	na	0	4	Add CI + FF
228	CK	ESP	75	0	75	0	0	0	0	na	0	5	Add Q + CI + FF
300	CK	ESP	75	58	97	9	0	0	0	na	98	5	Add Q + CI + FF
301	CK	FF	96	24	0	0	0	0	0	na	75	4	Add CI + FF
302	CK	ESP	50	0	93	0	0	0	0	na	75	4	Add CI + FF
303	CK	QC/FF	83	0	0	0	0	0	0	na	0	4	Add CI + FF
304	CK	ESP	89	49	90	0	0	0	0	na	89	5	Add Q + CI + FF
305	CK	ESP	53	59	94	0	42	0	0	na	99	16	Add Q + CI + FF + PT
306	CK	MC/FF	100	0	0	0	0	0	0	na	0	5	Add Q + CI + FF
308	CK	ESP	75	0	33	0	0	0	0	na	75	4	Add CI + FF
309	CK	MC/ESP	87	0	90	0	0	0	0	na	99	5	Add Q + CI + FF
315	CK	FF	75	0	0	0	0	0	0	na	75	4	Add CI + FF
316	CK	FF	50	0	0	0	0	0	0	na	75	5	Add Q + CI + FF
317	CK	FF	75	0	0	0	0	0	0	na	84	5	Add Q + CI + FF
318	CK	ESP	75	0	54	0	0	0	0	na	75	4	Add CI + FF
319	CK	ESP	91	20	90	0	0	90	0	na	96	16	Add Q + CI + FF + PT
320	CK	FF	75	0	0	0	0	52	0	na	0	8	Add CI + FF + PT
321	CK	ESP	50	71	0	0	0	61	0	na	0	8	Add CI + FF + PT
322	CK	ESP	0	0	60	0	0	0	0	na	93	20	Moderate DOM on ESP + Add Q
323	CK	ESP	75	0	93	0	27	0	0	na	94	16	Add Q + CI + FF + PT
335	CK	ESP	88	0	91	0	46	0	0	na	99	16	Add Q + CI + FF + PT
401	CK	ESP	92	42	93	19	0	0	0	na	49	4	Add CI + FF
402	CK	ESP	84	44	98	25	0	71	0	na	0	8	Add CI + FF + PT
403	CK	ESP	99	13	0	0	0	0	0	na	81	5	Add Q + CI + FF
404	CK	ESP	0	0	0	37	14	34	0	na	78	19	Add Q + IWS
405	CK	ESP	75	0	94	72	0	0	0	na	50	4	Add CI + FF

EER Site ID No.	Type	Current APCD	% Emission Reduction Required to Meet Option 2B with 0% Feed Redction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	D/F		
223	LWAK	FF	84	0	0	0	40	0	50	0	0	11	Add AB + Q + CI + FF + ST
224	LWAK	FF	65	0	0	0	0	0	50	75	0	9	Add AB + Q + CI + FF
225	LWAK	FF	0	0	0	0	0	0	50	0	0	12	Add AB + Q
226	LWAK	FF	50	0	0	0	0	0	50	75	0	9	Add AB + Q + CI + FF
227	LWAK	FF	70	0	0	0	14	0	60	96	0	11	Add AB + Q + CI + FF + ST
307	LWAK	FF/VS	99	0	0	0	0	0	50	0	0	9	Add AB + Q + CI + FF
310	LWAK	FF	64	6	82	0	0	0	50	0	0	9	Add AB + Q + CI + FF
311	LWAK	FF	67	0	87	0	0	66	50	75	0	11	Add AB + Q + CI + FF + ST
312	LWAK	FF	41	0	86	0	0	69	50	0	0	11	Add AB + Q + CI + FF + ST
313	LWAK	FF	0	0	87	73	15	0	50	75	0	13	Add AB + Q + IWS
314	LWAK	FF	80	42	96	61	0	0	50	0	0	9	Add AB + Q + CI + FF
336	LWAK	FF	75	0	75	0	0	0	50	75	0	9	Add AB + Q + CI + FF

EER Site ID No.	Type	Current APCD	% Emission Reduction Required to Meet Option 2B with 0% Feed Redction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	D/F		
209	INC	WHB,FF/VQ/PT/DM	0	0	0	0	0	95	25	82	75	52	Add AB + Q + PT
210	INC	FF/S	75	0	50	75	26	0	0	0	25	3	Moderate DOM on existing S + Add RH + CI + FF
211	INC	SS/PT/VS	50	0	75	50	0	88	0	0	0	13	Add RH + CI + FF + PT
212	INC	FF/S	0	36	0	0	71	0	0	0	0	7	Moderate DOM on existing FF & WS
214	INC	IWS	97	35	92	47	0	25	0	0	0	29	Small DOM on existing IWS + Add RH + CI+FF
216	INC	HES/WS	76	50	92	39	0	0	75	0	0	25	Add AB + RH + CI + FF
221	INC	PT	40	0	0	0	0	84	0	0	52	13	Add RH + CI + FF + PT
222	INC	WHB/SD/ESP/Q/PBS	50	0	0	0	0	0	0	0	83	8	Add CI
229	INC	WHB/ACS/HCS/CS	75	21	0	0	71	75	0	75	96	43	Add RH + CB + IWS + AB
324	INC	?	50	0	91	28	76	0	0	0	75	13	Add RH + CI + FF + PT
325	INC	SD/FF/WS/IWS	83	0	32	0	0	75	0	0	0	15	Moderate DOM on existing FF + PT + CI
327	INC	SD/FF/WS/ESP	99	0	0	0	0	0	4	0	99	53	Moderate DOMon combustor + Add CI
329	INC	PT/IWS	75	51	75	75	0	0	0	0	50	9	Add RH + CI + FF
330	INC	QT/WS/DM	4	64	82	0	51	0	50	0	99	56	Moderate DOM on combustor & WS + Add RH + CI + FF
331	INC	PT/IWS	89	0	98	0	75	75	0	0	0	13	Add RH + CI + FF + PT
332	INC	WS	25	87	0	0	35	95	0	90	75	39	Add AB + RH + CI + FF + PT
333	INC	SD/FF	0	0	0	50	57	0	0	0	0	14	Moderate DOM on existing SD & FF
334	INC	WS/ESP/PT	16	73	99	84	0	0	0	33	89	54	Moderate DOM on combustor + Add RH + CI + FF
337	INC	WHB/DA/DI/FF	97	0	27	64	0	80	0	0	0	15	Moderate DOM on existing FF + Add CI + PT
338	INC	QC/FF/SS/C/HES/DM	92	0	0	0	0	0	0	0	0	8	Add CI
339	INC	AT/PT/RJS/ESP	75	0	50	0	0	0	0	0	0	28	Moderate DOM on ESP + RH + CB
340	INC	WHB/ESP/WS	51	0	0	0	0	75	0	0	75	20	Add Q + CI + PT
341	INC	DA/DI/FF/HEPA/CA	0	0	0	0	0	0	50	13	50	53	Moderate DOM on combustor + Add CI
342	INC	WHB/QC/S/VS/DM	25	0	0	0	0	75	0	0	0	40	Add RH + CB + PT
344	INC	QC/VS/PT/DM	50	0	0	0	0	0	0	0	25	9	Add RH + CI + FF
346	INC	C/QC/VS/PT/DM	0	0	33	0	0	75	0	0	0	16	Moderate DOM on existing VS + Add PT
347	INC	C/QC/VS/S/DM	3	0	0	0	0	0	0	0	0	9	Add RH + CI + FF
348	INC	QC/AS/IWS	75	0	0	0	0	0	0	0	75	32	Add RH + CB
349	INC	QC/FF/QC/PT	0	0	0	75	50	75	0	0	0	4	Add IWS
350	INC	WHB/HE/FF	0	0	75	50	0	0	0	0	0	6	Add FF
351	INC	GC/C/FF	50	0	0	0	0	75	0	32	50	46	Moderate DOM on combustor + Add CI + PT
353	INC	QC/VS/DM/ESP	0	31	40	33	0	0	0	0	0	17	Moderate DOM on existing ESP
354	INC	QC/AS/VS/DM/IWS	0	0	0	0	0	14	0	0	0	18	Small DOM on existing WS
356	INC	QC/AS/FN/DM	75	52	0	0	0	75	25	0	75	24	Moderate DOM on combustor + Add RH + CI + FF + PT
357	INC	QC/VS/PT/IWS	75	39	75	0	0	0	75	0	0	25	Add AB + RH + CI + FF
358	INC	QC/VS/C/CT/S/DM	50	53	50	0	0	75	0	0	0	13	Add RH + CI + FF + PT
359	INC	WHB/FF/S	75	20	88	100	0	0	0	50	0	54	Moderate DOM on combustor + Add RH + CI + FF
400	INC	SD/FF	69	0	92	28	0	75	50	0	50	38	Moderate DOM on combustor + Add IWS + CI
500	INC	QC/VS/KOV/DM	0	0	0	0	0	89	0	0	0	2	Add PT
502	INC	WHB/QC/PBC/VS/ES	50	57	95	0	0	0	0	75	0	25	Add AB + RH + CI + FF
503	INC	HTHE/LTHE/FF	68	43	92	81	0	75	0	50	75	38	Moderate DOM on combustor + Add IWS + CI
504	INC	VS/C	100	17	0	47	0	0	0	0	0	9	Add RH + CI + FF
600	INC	WHB/QC/PT/IWS	25	0	0	50	0	75	0	0	0	13	Add RH + CI + FF + PT
700	INC	SD/RJS/VS/WS	0	65	100	89	0	0	0	0	0	6	Add FF
701	INC	VS/PT	75	65	0	75	0	0	0	0	50	9	Add RH + CI + FF
702	INC	QT/S/C	0	82	75	0	0	75	0	0	75	13	Add RH + CI + FF + PT
703	INC	WHB	75	0	0	0	92	0	0	0	0	20	Add Q + CB + PT
704	INC	NONE	25	23	0	0	84	75	0	0	0	41	Add Q + CI + FF + PT
705	INC	QT/VS/ESP/PT	61	44	65	33	0	0	0	0	75	9	Add RH + CI + FF

EER Site ID No.	Type	Current APCD	% Emission Reduction Required to Meet Option 2B with 0% Feed Redction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	HC	CO	D/F		
706	INC	QT/HS/C	75	65	0	0	0	75	4	0	0	24	Moderate DOM on combustor + Add RH + CI + FF + PT
707	INC	QT/WS	0	63	75	0	0	0	0	99	50	25	Add AB + RH + CI + FF
708	INC	WS/ESP	0	40	0	50	0	75	0	0	75	13	Add RH + CI + FF + PT
709	INC	NONE	50	63	0	0	0	0	0	0	0	10	Add Q + CB + FF
710	INC	QT/OS/C/S	50	46	75	0	72	99	61	0	0	24	Moderate DOM on combustor + Add RH + CI + FF + PT
711	INC	C/VS/AS	25	48	0	0	0	75	50	0	75	24	Moderate DOM on combustor + Add RH + CI + FF + PT
712	INC	NONE	0	31	0	0	0	0	0	0	0	6	Add FF
713	INC	VS/PT	75	78	50	0	4	75	0	0	75	13	Add RH + CI + FF + PT
714	INC	WS	0	18	75	0	50	0	0	0	50	44	Moderate DOM on existing WS + Add RH + CI + FF
725	INC	WS/QT	0	25	0	0	0	98	0	0	4	13	Add RH + CI + FF + PT
726	INC	QC/CS/DM/VS	75	0	75	75	0	75	66	0	0	24	Moderate DOM on combustor + Add RH + CI + FF + PT
727	INC	GC/C/FF	0	82	75	50	0	0	97	98	0	21	Add AB + FF
728	INC	QT/PT/VS	0	65	0	0	0	75	0	0	75	37	Moderate DOM on existing VS + Add RH + CB + PT
784	INC	NONE	0	63	75	50	97	0	25	0	0	33	Moderate DOM on combustor + Add IWS
805	INC	QT/QS/VS/ES/PBS	0	73	0	0	50	80	0	85	75	39	Add AB + RH + CI + PT + FF
806	INC	C/VS	97	66	89	0	44	75	67	75	0	39	Add AB + RH + CI + PT + FF
807	INC	C/WHB/VQ/PT/HS/DM	56	39	66	53	0	0	0	0	43	9	Add RH + CI + FF
808	INC	QT/PBS/ESP	25	0	75	50	0	0	0	2	0	9	Add RH + CI + FF
809	INC	VS	50	0	99	98	0	75	0	96	75	39	Add AB + RH + CI + FF + PT
810	INC	Q/VS/PBS	75	0	96	87	0	0	0	0	0	9	Add RH + CI + FF
824	INC	QT/VS/PT/DM	0	0	0	30	0	75	50	0	0	23	Moderate DOM on combustor & VS + Add PT
825	INC	CCS/QC/ESP	50	80	0	0	0	0	0	75	50	25	Add AB + RH + CI + FF
902	INC	QT/VS/PT	89	28	0	0	0	0	0	0	0	9	Add RH + CI + FF
904	INC	?	0	0	75	0	0	0	35	0	0	55	Moderate DOM on combustor + Add FF
905	INC	QT/VS/AS/CS	0	0	100	57	0	0	50	0	25	54	Moderate DOM on combustor + Add RH + CI + FF
906	INC	QT/PT	75	78	50	75	82	25	0	0	75	42	Add RH + CB + IWS
914	INC	?	0	0	0	50	75	94	75	0	95	39	Add AB + RH + CI + FF + PT
915	INC	QC/VS/C	75	73	95	88	50	0	77	92	53	39	Add AB + RH + CI + FF + PT

TABLE C-11c. CHARACTERIZATION OF ATF MODEL PLANTS, OPTION 2B, 0%FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID		Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
CK	Group 4	Add CI + FF	1	207		S	Keystone	MC/ESP	90,681	147,000	
			1	301		S	Essroc	FF	185,409	147,000	
			2	302	*	S	Lafarge	ESP	130,576	147,000	
			3	308	*	S	North Texas	ESP	162,599	147,000	
			1	315	*	S	Southdown	FF	102,042	147,000	
			4	318	*	S	Texas Industries	ESP	152,675	147,000	
			1	401		S	Ash Grove	ESP	172,481	147,000	
			1	405		S	Ash Grove	ESP	194,905	147,000	
			1	202		L	Heartland	FF	221,421	370,000	
			1	205		L	Holnam	ESP	253,556	370,000	
			1	208		L	Keystone	ESP	307,644	370,000	
			1	303		L	Lone Star	MC/FF	408,681	370,000	
	Group 5	Add Q + CI + FF	2	200		S	Giant	FF	123,584	147,000	
			1	228	*	S	Ash Grove	ESP	148,537	147,000	
			2	300		S	Essroc	ESP	164,692	147,000	
			1	403		S	Ash Grove	ESP	184,877	147,000	
			1	204		L	Holnam	ESP	693,613	370,000	
			1	304		L	Lone Star	ESP	300,367	370,000	
			1	306		L	National	MC/FF	280,868	370,000	
			1	309		L	River Cement	MC/ESP	665,839	370,000	
			1	316	*	L	Southdown	FF	nr	370,000	
			1	317		L	Southdown	FF	422,190	370,000	
	Group 8	Add CI + FF + PT		321	*	S	Lafarge	ESP	59,542	147,000	85
			1		*						
			1	402		S	Ash Grove	ESP	187,605	147,000	85
			3	320	*	L	Lafarge	FF	nr	370,000	85
	Group 16	Add Q + CI + FF + PT	2	305		S	Medusa	ESP	196,903	147,000	85
			1	323		S	Lafarge	FF	185,409	147,000	85
			1	335		S	Medusa	ESP	100,378	147,000	85
			1	203		L	Holnam	ESP	291,645	370,000	85
			1	206		L	Holnam	ESP	348,510	370,000	85
			1	319		L	Continental	ESP	344,250	370,000	85
	Group 18	Add Q + FF	2	201	*	S	Giant	FF	137,945	147,000	
	Group 19	Add Q + IWS	1	404		L	Ash Grove	ESP	265,721	370,000	85
	Group 20	Moderate DOM on ESP + Add Q	1	322		S	Lafarge	ESP	112,269	147,000	
LWAK	Group 9	Add AB + Q + CI + FF	1	224	*	M	Solite	FF	39,049	40,500	
			1	226	*	M	Solite	FF	nr	40,500	
			2	307	*	M	Norlite	FF/VS	49,050	40,500	
			1	310	*	M	Solite	FF	47,770	40,500	
			1	314	*	M	Solite	FF	36,793	40,500	
			1	336	*	M	Solite	FF	30,336	40,500	
	Group 11	Add AB + Q + CI + FF + ST	1	223	*	M	Solite	FF	29,092	40,500	1,570
			1	227		M	Solite	FF	38,796	40,500	1,570
			1	311	*	M	Solite	FF	51,627	40,500	1,570
			1	312	*	M	Solite	FF	47,698	40,500	1,570
	Group 12	Add AB + Q	1	225	*	M	Solite	FF	38,270	40,500	
	Group 13	Add AB + Q + IWS	1	313	*	M	Solite	FF	36,793	40,500	1,570

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
INC	Group 2	Add PT	1	500	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92
	Group 3	Moderate DOM on existing S + Add RH + CI + FF	1	210 *	L	LWD	FF/S	96,107	60,800	
	Group 4	Add IWS	2	349 *	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
	Group 6	Add FF	1	350 *	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
			1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	Moderate DOM on existing FF & WS	1	212	L	LWD	FF/S	44,610	60,800	
	Group 8	Add CI	1	222	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
			1	338	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add RH + CI + FF	1	344 *	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	701 *	M	Eli Lilly	VS/PT	9,208	22,100	
			1	705	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	
			1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
			1	808	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
			1	810 *	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	329 *	L	Dupont	PT/IWS	53,489	60,800	
	Group 10	Add Q + CB + FF	1	709 *	S	Cargill Chemical	NONE	3,123	3,900	
	Group 13	Add RH + CI + FF + PT	1	708 *	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
			1	713	S	Pfizer	VS/PT	2,625	3,900	92
			1	725	S	Zeneca	WS/QT	1,489	3,900	92
			1	324 *	M	Allied	?	12,120	22,100	92
			1	358	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	702 *	M	Dupont	QT/S/C	nr	22,100	92
			1	211 *	L	LWD	SS/PT/VS	43,596	60,800	92
			1	221	L	Rollins	PT	51,114	60,800	92
			1	331 *	L	Ross	PT/IWS	44,379	60,800	92
			1	600 *	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
	Group 14	Moderate DOM on existing SD & FF	1	333 *	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	Moderate DOM on existing FF + PT + CI	1	325 *	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92
			2	337	M	Olin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 16	Moderate DOM on existing VS + Add PT	1	346 *	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92
	Group 17	Moderate DOM on existing ESP	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
	Group 18	Small DOM on existing WS	1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
	Group 20	Add Q + CB + PT	1	703 *	S	Aristech	WHB	1,873	3,900	92
			1	340 *	M	Miles	WHB/ESP/WS	16,003	22,100	92
	Group 21	Add AB + FF	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
	Group 23	Moderate DOM on combustor & VS + Add PT	1	824 *	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
	Group 24	Moderate DOM on combustor + Add RH + CI + FF + PT	1	356 *	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	726 *	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	706 *	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
			1	710 *	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	711 *	L	Chevron Chemical	C/VS/AS	52,907	60,800	92
	Group 25	Add AB + RH + CI + FF	1	502 *	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	
			1	357 *	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	825 *	M	General Electric	CCS/QC/ESP	21,363	22,100	
			1	216 *	L	Rollins	HES/WS	40,002	60,800	
			1	707 *	L	Dupont	QT/WS	58,120	60,800	
	Group 28	Moderate DOM on ESP + RH + CB	1	339 *	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
	Group 29	Small DOM on existing IWS + Add RH + CI+FF	1	214 *	M	Rollins	IWS	34,655	22,100	
	Group 32	Add RH + CB	1	348 *	S	Occidental Chemical	QC/AS/IWS	nr	3,900	
	Group 33	Moderate DOM on combustor + Add IWS	1	784 *	S	Cook Composites	NONE	nr	3,900	92
	Group 37	Moderate DOM on existing VS + Add RH + CB + PT	1	728 *	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
	Group 38	Moderate DOM on combustor + Add IWS + CI	1	503 *	S	Lake City Army Ammo Plai	HTHE/LTHE/FF	4,747	3,900	92
			1	400 *	L	Marine Shale	SD/FF	179,333	60,800	92
	Group 39	Add AB + RH + CI + FF + PT	1	332 *	M	Thermalkem	WS	20,208	22,100	92
			1	805 *	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	92
			1	806	M	Amoco Oil	C/VS	20,641	22,100	92
			1	914 *	M	Vertac Superfund	?	25,849	22,100	92
			1	915 *	M	Eastman Kodak	QC/VS/C	nr	22,100	
			1	809 *	L	Tennessee Eastman	VS	40,524	60,800	92
	Group 40	Add RH + CB + PT	1	342 *	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92
	Group 41	Add Q + CI + FF + PT	1	704 *	S	Ashland	NONE	5,011	3,900	92
	Group 42	Add RH + CB + IWS	1	906 *	S	Monsanto	QT/PT	2,738	3,900	92
	Group 43	Add RH + CB + IWS + AB	1	229 *	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92
	Group 44	Moderate DOM on existing WS + Add RH + CI + FF	2	714 *	M	Olnin Chemical	WS	19,185	22,100	
	Group 46	Moderate DOM on combustor + Add CI + PT	1	351 *	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
	Group 52	Add AB + Q + PT	1	209 *	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 53	Moderate DOM on combustor + Add CI	1	341 *	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	327	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
	Group 54	Moderate DOM on combustor + Add RH + CI + FF	1	905 *	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	359 *	M	Atochem	WHB/FF/S	13,802	22,100	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	
	Group 55	Moderate DOM on combustor + Add FF	1	904 *	S	First Chemical	?	5,950	3,900	

TABLE C-11c. CHARACTERIZATION OF ATF MODEL PLANTS, OPTION 2B, 0%FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
	Group 56	Moderate DOM on combustor & WS + Add RH + CI + FF	1	330 *	M	General Electric	QT/WS/DM	10,345	22,100	

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribution of reported values from other facilities.
** Reported Ratio is equal to the number of total units located at a site divided by the number of units for which information was reported.
Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units.
nr = not reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 4	S	Add CI,FF	14	$2,611K	$718K	$1,022K
		L		4	$5,658K	$1,490K	$2,139K
	Group 5	S	Add Q,CI,FF	6	$3,144K	$806K	$1,180K
		L		6	$6,570K	$1,645K	$2,414K
	Group 8	S	Add CI,FF,PT	2	$3,512K	$1,048K	$1,498K
		L		3	$7,593K	$2,174K	$3,138K
	Group 16	S	Add Q, CI, FF, PT	4	$4,045K	$1,136K	$1,656K
		L		3	$8,505K	$2,329K	$3,413K
	Group 18	S	Add Q, FF	2	$2,673K	$443K	$754K
	Group 19	L	Add Q, IWS	1	$5,322K	$902K	$1,740K
	Group 20	S	Moderate DOM on existing ESP, Add Q	1	$2,290K	$237K	$538K
LWAK	Group 9	M	Add AB, Q, CI, FF	7	$1,883K	$1,615K	$1,850K
	Group 11	M (hi HCl)	Add AB, Q, CI, FF, ST	4	$3,112K	$1,944K	$2,380K
	Group 12	M	Add AB, Q	1	$809K	$1,264K	$1,371K
	Group 13	M (hi HCl)	Add AB, IWS	1	$1,825K	$1,946K	$2,218K
Incinerators	Group 2	L	Add PT	1	$445K	$195K	$267K
	Group 3	L	DOM WS mod, Add RH,CI/CB,FF	1	$1,876K	$712K	$968K
	Group 4	S	Add IWS	2	$215K	$97K	$132K
	Group 6	M	Add FF	2	$295K	$121K	$154K
		L		1	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
	Group 8	L	Add CI/CB	2	$425K	$224K	$280K
	Group 9	M	Add RH, CI/CB, FF	9	$932K	$391K	$508K
		L		1	$1,681K	$672K	$876K
	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
	Group 13	S	Add PT, RH, CI/CB, FF	3	$632K	$331K	$414K
		M		3	$1,137K	$515K	$665K
		L		4	$2,126K	$866K	$1,143K
	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	3	$620K	$278K	$364K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators	Group 16	M	DOM VS mod, Add PT	1	$250K	$159K	$205K
(cont.)	Group 17	M	DOM ESP mod	1	$535K	$50K	$120K
	Group 18	M	DOM WS small	1	$40K	$13K	$20K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K
		M		1	$879K	$319K	$441K
	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
	Group 23	S	DOM VS mod, DOM Combustor, Add PT	1	$185K	$96K	$128K
	Group 24	S	DOM combustor, Add PT,RH,CI/CB,FF	2	$749K	$331K	$433K
		M		2	$1,291K	$515K	$690K
		L		1	$2,312K	$866K	$1,173K
	Group 25	S	Add AB,RH,CI/CB,FF	1	$840K	$433K	$542K
		M		2	$1,349K	$924K	$1,096K
		L		2	$2,223K	$1,947K	$2,223K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$178K	$267K
	Group 29	M	DOM IWS small, Add RH,CI/CB,FF	1	$972K	$403K	$528K
	Group 32	S	Add RH, CB/CI	1	$493K	$152K	$216K
	Group 33	S	DOM Combustor, Add IWS	1	$331K	$97K	$151K
	Group 37	S	Moderate DOM on existng VS, Add RH, CI/CB, PT	1	$561K	$248K	$326K
	Group 38	S	Moderate DOM on Combustor, Add CI/CB, IWS	1	$672K	$188K	$287K
		L		1	$1,941K	$452K	$755K
	Group 39	M	Add RH, CI/CB, FF, PT, AB	5	$1,554K	$1,048K	$1,253K
		L		1	$2,669K	$2,142K	$2,490K
	Group 40	S	Add RH, CI/CB, PT	1	$550K	$242K	$316K
	Group 41	S	Add Q, CI/CB, FF, PT	1	$700K	$311K	$403K
	Group 42	S	Add RH, CI/CB, IWS	1	$708K	$249K	$348K
	Group 43	S	Add RH, CI/CB, IWS, AB	1	$973K	$441K	$576K
	Group 44	M	Add AB, CI/CB	2	$1,493K	$825K	$1,042K
	Group 46	S	Moderate DOM on Combustor, Add CI/CB, PT	1	$514K	$181K	$254K
	Group 52	M	Add AB, Q, PT	1	$899K	$706K	$830K
	Group 53	M	Moderate DOM on Combustor, Add CI/CB	1	$551K	$147K	$225K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators		L		1	$610K	$224K	$310K
(cont.)	Group 54	S	Moderate DOM on Combustor, Add RH, CI/CB, FF	1	$691K	$241K	$334K
		M		1	$1,087K	$391K	$533K
		L		1	$1,866K	$672K	$906K
	Group 55	S	Moderate DOM on Combustor, Add FF	1	$198K	$89K	$117K
	Group 56	M	Moderate DOM on WS, Combustor, Add RH, CI/CB, FF	1	$1,158K	$405K	$566K

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
Floor Levels		5.00		0.03		60.00		80.00		60.00		1.00		20.00		na		0.20	
200	CK	33.76	34	-118.49	0	-11.18	0	75.85	76	-365.89	0	-12896.09	0	nr	0	na	na	nr	25
201	CK	-151.33	0	-130.41	0	-50.56	0	73.25	73	-298.50	0	-24771.29	0	nr	0	na	na	nr	75
202	CK	67.57	68	-25.37	0	33.56	34	-215.07	0	-374.52	0	-385.88	0	nr	0	na	na	nr	0
203	CK	-11.62	0	-119.51	0	86.27	86	-236.48	0	30.76	31	-70.10	0	-5.26	0	na	na	96.43	96
204	CK	61.79	62	0.26	0	84.04	84	-1362.77	0	-130000.40	0	-12137.22	0	nr	0	na	na	64.91	65
205	CK	77.43	77	35.22	35	94.73	95	-366.92	0	-397.63	0	-532.00	0	10.95	0	na	na	-103.05	0
206	CK	59.01	59	-25.08	0	72.13	72	-984.03	0	3.33	3	-3047.41	0	-65.62	0	na	na	82.61	83
207	CK	60.11	60	-31.99	0	79.05	79	-381.13	0	-1689.68	0	-341.44	0	nr	0	na	na	-1150.00	0
208	CK	67.65	68	-108.75	0	12.33	12	-677.54	0	-1861.54	0	-455.75	0	nr	0	na	na	-4238.39	0
228	CK	nr	75	nr	0	nr	75	nr	0	nr	0	nr	0	-18.34	0	na	na	2.44	0
300	CK	nr	75	58.04	58	96.03	96	-6.02	0	-133.28	0	-342.19	0	-4.58	0	na	na	98.33	98
301	CK	94.24	94	23.80	24	-730.24	0	-453.52	0	-35034.62	0	-630.73	0	-65.70	0	na	na	nr	75
302	CK	nr	0	-44.64	0	91.40	91	-355.66	0	-700.48	0	-176.54	0	nr	0	na	na	nr	75
303	CK	77.10	77	-30.43	0	-199.20	0	-682.96	0	-1955.87	0	-1210.34	0	66.67	0	na	na	nr	0
304	CK	85.26	85	48.89	49	87.73	88	-130.78	0	-22535.67	0	-30004.93	0	nr	0	na	na	88.89	89
305	CK	37.94	38	58.80	59	92.98	93	-212.74	0	25.45	25	-430.90	0	10.42	0	na	na	99.65	99
306	CK	99.81	100	-99.06	0	-367.57	0	-601.90	0	-3633.80	0	-669.23	0	nr	0	na	na	-266.30	0
308	CK	nr	75	-36.36	0	15.76	16	-1139.78	0	-1621.71	0	-68.87	0	nr	0	na	na	nr	75
309	CK	82.73	83	-25.78	0	87.03	87	-1843.95	0	-64.30	0	-1060.80	0	-32.45	0	na	na	99.62	99
315	CK	nr	75	-2740.15	0	-413.88	0	-730.10	0	-3762.94	0	-5273.91	0	nr	0	na	na	nr	75
316	CK	nr	50	-154.44	0	-1240.79	0	-1238.86	0	-196.56	0	-43.33	0	-233.33	0	na	na	nr	75
317	CK	nr	75	-1230.87	0	-162.65	0	-296.42	0	-1653.41	0	-2574.16	0	64.17	0	na	na	83.87	84
318	CK	nr	75	-225.02	0	41.59	42	-401.89	0	-63.11	0	-1460.26	0	-207.69	0	na	na	nr	75
319	CK	87.95	88	20.00	20	87.88	88	-46.20	0	-30.38	0	87.33	87	68.94	0	na	na	96.42	96
320	CK	nr	50	-899.98	0	-3311.75	0	-2000.16	0	-2653.29	0	37.65	38	80.10	0	na	na	-136.97	0
321	CK	nr	50	71.43	71	-1038.05	0	-1518.62	0	-1645.51	0	49.40	49	nr	0	na	na	nr	0
322	CK	nr	0	-130.76	0	49.25	49	-258.34	0	-260.41	0	-534.67	0	-170.27	0	na	na	92.54	93
323	CK	nr	50	-7.14	0	91.25	91	-15.59	0	6.12	6	-1427.98	0	-90.48	0	na	na	94.44	94
335	CK	83.45	83	-48.08	0	89.12	89	-767.16	0	29.91	30	-221.34	0	-12.55	0	na	na	99.20	99
401	CK	89.00	89	42.41	42	91.62	92	6.01	6	-261.48	0	-128.90	0	61.33	0	na	na	48.72	49
402	CK	79.26	79	43.93	44	97.77	98	12.79	13	-451.10	0	62.93	63	33.05	0	na	na	nr	0
403	CK	99.23	99	13.39	13	-152.84	0	-182.29	0	-13145.69	0	-5893.12	0	-13.19	0	na	na	81.31	81
404	CK	-56.76	0	-528.18	0	-36.09	0	27.44	27	-10.95	0	14.22	14	-25.96	0	na	na	77.88	78
405	CK	66.98	67	-36.56	0	92.04	92	67.60	68	-3224.52	0	-253.98	0	6.65	0	na	na	nr	50

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
Floor Levels		5.00		0.015		60.00		80.00		1300.00		2.50		5.00		50.00		0.20	
223	LWAK	82.09	82	-479.94	0	-1304.10	0	-124.69	0	19.94	20	-431.63	0	nr	50	nr	0	nr	0
224	LWAK	61.23	61	-427.20	0	-1893.38	0	-331.05	0	-179818.36	0	-669.78	0	nr	50	nr	75	nr	0
225	LWAK	-18.64	0	-4045.81	0	-8044.14	0	-692.88	0	-187.02	0	-2277.15	0	nr	50	nr	0	nr	0
226	LWAK	nr	50	-1385.13	0	nr	0	nr	0	nr	0	nr	0	nr	50	nr	75	nr	0
227	LWAK	66.76	67	-926.73	0	-287.87	0	-297.03	0	-13.96	0	-674.17	0	60.00	60	96.25	96	nr	0
307	LWAK	98.87	99	-38.09	0	-1282.19	0	-25.21	0	-7777.68	0	-465.77	0	nr	50	-10.30	0	nr	0
310	LWAK	59.85	60	6.25	6	76.47	76	-33.99	0	-44.98	0	-51.18	0	nr	50	nr	0	nr	0
311	LWAK	63.26	63	-150.00	0	82.22	82	-121.23	0	-41.49	0	54.85	55	nr	50	nr	75	nr	0
312	LWAK	34.12	34	-114.28	0	81.33	81	-126.36	0	-34.10	0	58.97	59	nr	50	nr	0	nr	0
313	LWAK	-1397.52	0	-150.00	0	82.36	82	72.82	73	-13.09	0	-438.64	0	nr	50	nr	75	nr	0
314	LWAK	77.97	78	42.18	42	95.20	95	60.57	61	-111.03	0	-71.55	0	nr	50	nr	0	nr	0
336	LWAK	nr	75	-84.34	0	nr	75	nr	0	nr	0	nr	0	nr	50	nr	75	-418.13	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
Floor Levels		5.00		0.015		60.00		80.00		25.00		1.00		5.00		50.00		0.20	
209	INC	-108.04	0	-223.01	0	-901.19	0	-254.98	0	-213.86	0	93.77	94	nr	25	81.58	82	nr	75
210	INC	nr	75	-192.21	0	nr	50	nr	75	0.74	1	-323.19	0	-28.98	0	-13642.61	0	nr	25
211	INC	nr	25	-44.23	0	nr	75	nr	50	-43.80	0	83.61	84	-115.17	0	-951.02	0	nr	0
212	INC	nr	0	36.13	36	nr	0	nr	0	61.68	62	-689.04	0	-44.54	0	-917.31	0	nr	0
214	INC	96.64	97	35.45	35	89.14	89	47.30	47	-2225.59	0	nr	25	-305.40	0	-230.99	0	-237.84	0
216	INC	67.77	68	50.15	50	89.87	90	38.76	39	-254.00	0	nr	0	nr	75	-384.92	0	nr	0
221	INC	20.32	20	-5.42	0	-95.30	0	-31.44	0	-172.95	0	78.17	78	-41.03	0	-226.18	0	52.38	52
222	INC	nr	50	-597.56	0	-2747.28	0	nr	0	-2256.19	0	-256.01	0	-1425.98	0	-33.75	0	82.76	83
229	INC	nr	75	21.26	21	-76.35	0	-33.89	0	61.77	62	nr	75	nr	0	nr	75	96.38	96
324	INC	nr	50	-38.89	0	87.59	88	27.68	28	67.66	68	nr	0	nr	0	-59.91	0	nr	75
325	INC	76.94	77	-361.53	0	9.60	10	-152.27	0	-523.38	0	nr	75	-490.98	0	-383.87	0	nr	0
327	INC	99.23	99	-1094.70	0	-289.48	0	-200.94	0	-927.02	0	-638.11	0	3.94	4	-498.03	0	98.75	99
329	INC	nr	75	50.74	51	nr	75	nr	75	-374.75	0	-274.78	0	-102.15	0	-417.79	0	nr	50
330	INC	-27.88	0	64.37	64	76.47	76	-49.79	0	34.29	34	nr	0	nr	50	nr	0	99.25	99
331	INC	85.31	85	-87.50	0	97.84	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-191.97	0
332	INC	nr	25	87.30	87	nr	0	nr	0	13.13	13	93.04	93	nr	0	90.00	90	nr	75
333	INC	nr	0	-1053.82	0	nr	0	nr	50	42.40	42	-135.54	0	nr	0	-1018.45	0	nr	0
334	INC	-11.44	0	72.94	73	98.24	98	84.07	84	-109.38	0	nr	0	-146.46	0	32.52	33	89.47	89
337	INC	95.93	96	-6247.01	0	2.90	3	64.19	64	-9471.38	0	73.40	73	-53.62	0	-6480.76	0	nr	0
338	INC	88.99	89	-1099.99	0	-169.74	0	-5.63	0	-22288.80	0	-2617.49	0	-173.60	0	-2389.47	0	nr	0
339	INC	nr	75	-414.21	0	nr	25	nr	0	-91.67	0	-9966.49	0	-303.49	0	nr	0	nr	0
340	INC	35.30	35	-130.06	0	-817.42	0	-597.04	0	-99.81	0	nr	50	-209.62	0	-69.02	0	nr	75
341	INC	-614.53	0	-916.94	0	-478.44	0	-944.00	0	-2160.14	0	nr	0	nr	50	13.27	13	nr	50
342	INC	0.56	1	-316.97	0	-313.76	0	-3408.50	0	-15877.71	0	nr	75	nr	0	nr	0	nr	0
344	INC	nr	50	-826.62	0	-395.71	0	-16.98	0	-3569.67	0	nr	0	-178.75	0	-209.81	0	nr	25
346	INC	-2297.40	0	-1067.30	0	11.30	11	-553.14	0	-4344.22	0	nr	75	nr	0	-77.84	0	-63.93	0
347	INC	-29.07	0	-115.39	0	-658.24	0	-443.92	0	-2138.44	0	nr	0	nr	0	nr	0	-936.27	0
348	INC	nr	75	-1399.99	0	-824.71	0	-2435.15	0	-59821.89	0	-167.39	0	nr	0	-502.09	0	nr	75
349	INC	nr	0	-690.51	0	-114.45	0	nr	75	nr	50	nr	75	nr	0	-476.61	0	nr	0
350	INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-1385.22	0	nr	0
351	INC	nr	50	-68.16	0	nr	0	-645.40	0	nr	0	nr	50	nr	0	32.39	32	nr	50
353	INC	-65.16	0	30.81	31	20.30	20	32.99	33	nr	0	nr	0	nr	0	-214.55	0	-57.48	0
354	INC	-697.91	0	-141.54	0	-3272.96	0	-684.78	0	-5572.48	0	-14.29	0	nr	0	-1590.75	0	-2624.80	0
356	INC	nr	75	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	25	-1250.82	0	nr	75
357	INC	nr	75	38.53	39	nr	75	nr	0	-390.75	0	nr	0	nr	75	-354.30	0	nr	0
358	INC	nr	50	52.79	53	nr	50	nr	0	-1005.24	0	nr	75	nr	0	-3231.54	0	nr	0
359	INC	nr	75	19.91	20	84.57	85	99.85	100	-315.01	0	nr	0	nr	0	49.71	50	nr	0
400	INC	58.48	58	-152.37	0	89.32	89	27.87	28	nr	0	nr	75	nr	50	nr	0	nr	50
500	INC	-123.65	0	-767.27	0	-2717.13	0	-2249.06	0	-140.75	0	85.27	85	nr	0	nr	75	-430.50	0
502	INC	nr	50	57.14	57	93.67	94	-5.12	0	-59.17	0	nr	0	nr	0	nr	50	-796.86	0
503	INC	57.02	57	43.40	43	89.61	90	81.34	81	nr	0	nr	75	nr	0	nr	50	nr	75
504	INC	99.64	100	16.67	17	-106.12	0	46.56	47	-628.63	0	nr	0	nr	0	nr	0	nr	0
600	INC	nr	0	-100.00	0	nr	0	nr	50	-2746.99	0	nr	75	nr	0	nr	0	nr	0
700	INC	-48.90	0	65.40	65	99.69	100	88.65	89	-152.96	0	-1002.22	0	nr	0	nr	0	nr	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.	TEQ Adj. % Reduct
701	INC	nr	75	65.22	65	nr	0	nr	75	-209.72	0	nr	0	-549.35	0	nr	0	nr	50
702	INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr	75
703	INC	nr	75	-400.00	0	nr	0	nr	0	89.70	90	nr	0	-1233.93	0	-4240.46	0	nr	0
704	INC	nr	0	23.08	23	nr	0	nr	0	78.37	78	nr	50	nr	0	-1042.24	0	nr	0
705	INC	47.99	48	43.74	44	52.88	53	32.84	33	-238.87	0	nr	0	nr	0	-1632.17	0	nr	75
706	INC	nr	75	64.87	65	nr	0	nr	0	-6211.60	0	nr	75	3.55	4	-25.75	0	-895.02	0
707	INC	nr	0	62.86	63	nr	75	nr	0	-559.36	0	nr	0	nr	0	99.28	99	nr	50
708	INC	nr	0	39.80	40	nr	0	nr	50	-4479.16	0	nr	75	nr	0	-473.71	0	nr	75
709	INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-291.04	0	-544.33	0	nr	0
710	INC	nr	50	45.78	46	nr	75	nr	0	63.05	63	99.10	99	60.53	61	-70.45	0	nr	0
711	INC	nr	0	47.67	48	nr	0	nr	0	-3874.02	0	nr	75	nr	50	-245.51	0	nr	75
712	INC	nr	0	30.97	31	-3458.83	0	-241.79	0	nr	0	nr	0	nr	0	nr	0	nr	0
713	INC	nr	75	77.78	78	nr	50	nr	0	-27.56	0	nr	75	nr	0	-2398.65	0	nr	75
714	INC	nr	0	18.48	18	nr	75	nr	0	33.34	33	nr	0	nr	0	-195.25	0	nr	50
725	INC	-313.63	0	24.62	25	-103.28	0	-69.64	0	-515.50	0	97.71	98	-185.71	0	-1110.45	0	3.85	4
726	INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	65.76	66	-147.16	0	nr	0
727	INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	97.29	97	97.74	98	nr	0
728	INC	nr	0	65.04	65	nr	0	nr	0	-8462.93	0	nr	75	nr	0	nr	0	nr	75
784	INC	nr	0	63.41	63	nr	75	nr	50	96.31	96	nr	0	nr	0	-1273.27	0	nr	0
805	INC	nr	0	73.50	73	nr	0	nr	0	nr	50	73.72	74	-4.12	0	85.39	85	nr	75
806	INC	95.77	96	66.47	66	85.41	85	-1025.54	0	24.67	25	nr	75	67.16	67	74.58	75	nr	0
807	INC	41.64	42	39.43	39	54.90	55	53.04	53	-1536.67	0	-349.69	0	-123.95	0	-831.18	0	42.53	43
808	INC	nr	0	-38.32	0	nr	75	nr	50	-7885.28	0	nr	0	nr	0	1.62	2	-29.87	0
809	INC	nr	50	nr	0	99.21	99	97.87	98	nr	0	nr	75	-13.61	0	95.94	96	nr	75
810	INC	nr	75	nr	0	94.52	95	86.54	87	nr	0	nr	0	nr	0	-221.89	0	nr	0
824	INC	-837.46	0	-134.37	0	-67.55	0	29.62	30	-1320.46	0	nr	75	nr	0	-487.13	0	nr	0
825	INC	nr	50	80.00	80	nr	0	nr	0	-1321.95	0	nr	0	nr	0	nr	75	nr	50
902	INC	85.72	86	28.23	28	-231.54	0	-725.08	0	-634.89	0	nr	0	-13.70	0	-26.92	0	-3167.97	0
904	INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	35.02	35	-9831.93	0	nr	0
905	INC	nr	0	nr	0	99.70	100	56.79	57	nr	0	nr	0	nr	0	-36.48	0	nr	25
906	INC	nr	75	77.68	78	nr	25	nr	75	75.64	76	nr	50	-147.78	0	-729.92	0	nr	75
914	INC	nr	0	-257.14	0	nr	0	nr	50	nr	25	91.71	92	nr	75	-1288.89	0	95.44	95
915	INC	nr	50	73.45	73	93.48	93	88.18	88	nr	0	nr	0	76.74	77	92.24	92	52.94	53

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 2b with 25% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO	D/F		
200	CK	FF	34	0	0	76	0	0	0	na	25	5	Add WQ + CI + FF
201	CK	FF	0	0	0	73	0	0	0	na	75	21	Moderate DOM on FF + WQ
202	CK	FF	68	0	34	0	0	0	0	na	0	4	Add CI + FF
203	CK	ESP	0	0	86	0	31	0	0	na	96	16	Add WQ + CI + FF + PT
204	CK	ESP	62	0	84	0	0	0	0	na	65	5	Add WQ + CI + FF
205	CK	ESP	77	35	95	0	0	0	0	na	0	4	Add CI + FF
206	CK	ESP	59	0	72	0	3	0	0	na	83	16	Add WQ + CI + FF + PT
207	CK	MC/ESP	60	0	79	0	0	0	0	na	0	4	Add CI + FF
208	CK	ESP	68	0	12	0	0	0	0	na	0	4	Add CI + FF
228	CK	ESP	0	0	75	0	0	0	0	na	0	3	Add FF
300	CK	ESP	75	58	96	0	0	0	0	na	98	5	Add WQ + CI + FF
301	CK	FF	94	24	0	0	0	0	0	na	75	4	Add CI + FF
302	CK	ESP	0	0	91	0	0	0	0	na	75	4	Add CI + FF
303	CK	QC/FF	77	0	0	0	0	0	0	na	0	4	Add CI + FF
304	CK	ESP	85	49	88	0	0	0	0	na	89	5	Add WQ + CI + FF
305	CK	ESP	38	59	93	0	25	0	0	na	99	16	Add WQ + CI + FF + PT
306	CK	MC/FF	100	0	0	0	0	0	0	na	0	5	Add WQ + CI + FF
308	CK	ESP	75	0	16	0	0	0	0	na	75	4	Add CI + FF
309	CK	MC/ESP	83	0	87	0	0	0	0	na	99	5	Add WQ + CI + FF
315	CK	FF	75	0	0	0	0	0	0	na	75	4	Add CI + FF
316	CK	FF	50	0	0	0	0	0	0	na	75	5	Add WQ + CI + FF
317	CK	FF	75	0	0	0	0	0	0	na	84	5	Add WQ + CI + FF
318	CK	ESP	75	0	42	0	0	0	0	na	75	4	Add CI + FF
319	CK	ESP	88	20	88	0	0	87	0	na	96	16	Add WQ + CI + FF + PT
320	CK	FF	50	0	0	0	0	38	0	na	0	8	Add CI + FF + PT
321	CK	ESP	50	71	0	0	0	49	0	na	0	8	Add CI + FF + PT
322	CK	ESP	0	0	49	0	0	0	0	na	93	20	Moderate DOM on ESP + Add WQ
323	CK	ESP	50	0	91	0	6	0	0	na	94	16	Add WQ + CI + FF + PT
335	CK	ESP	83	0	89	0	30	0	0	na	99	16	Add WQ + CI + FF + PT
401	CK	ESP	89	42	92	6	0	0	0	na	49	4	Add CI + FF
402	CK	ESP	79	44	98	13	0	63	0	na	0	8	Add CI + FF + PT
403	CK	ESP	99	13	0	0	0	0	0	na	81	5	Add WQ + CI + FF
404	CK	ESP	0	0	0	27	0	14	0	na	78	19	Add WQ + IWS
405	CK	ESP	67	0	92	68	0	0	0	na	50	4	Add CI + FF

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 2b with 25% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO	D/F		
223	LWAK	FF	82	0	0	0	20	0	50	0	0	11	Add AB + WQ + CI + FF + ST
224	LWAK	FF	61	0	0	0	0	0	50	0	0	9	Add AB + WQ + CI + FF
225	LWAK	FF	0	0	0	0	0	0	50	0	0	12	Add AB + WQ
226	LWAK	FF	50	0	0	0	0	0	50	0	0	9	Add AB + WQ + CI + FF
227	LWAK	FF	67	0	0	0	0	0	60	0	0	9	Add AB + WQ + CI + FF
307	LWAK	FF/VS	99	0	0	0	0	0	50	0	0	9	Add AB + WQ + CI + FF
310	LWAK	FF	60	6	76	0	0	0	50	0	0	9	Add AB + WQ + CI + FF
311	LWAK	FF	63	0	82	0	0	55	50	0	0	11	Add AB + WQ + CI + FF + ST
312	LWAK	FF	34	0	81	0	0	59	50	0	0	11	Add AB + WQ + CI + FF + ST
313	LWAK	FF	0	0	82	73	0	0	50	0	0	16	Add AB + WQ + FF
314	LWAK	FF	78	42	95	61	0	0	50	0	0	9	Add AB + WQ + CI + FF
336	LWAK	FF	75	0	75	0	0	0	50	0	0	9	Add AB + WQ + CI + FF

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 2b with 25% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO	D/F		
209	INC	WHB,FF/VQ/PT/DM	0	0	0	0	0	94	25	82	75	52	Add AB + WQ + PT
210	INC	FF/S	75	0	50	75	1	0	0	0	25	29	Small DOM on existing WS + Add RH + CI + FF
211	INC	SS/PT/VS	25	0	75	50	0	84	0	0	0	13	Add RH + CI + FF + PT
212	INC	FF/S	0	36	0	0	62	0	0	0	0	7	Moderate DOM on existing FF & WS
214	INC	IWS	97	35	89	47	0	25	0	0	0	29	Small DOM on existing IWS + Add RH + CI+FF
216	INC	HES/WS	68	50	90	39	0	0	75	0	0	25	Add AB + RH + CI + FF
221	INC	PT	20	0	0	0	0	78	0	0	52	13	Add RH + CI + FF + PT
222	INC	WHB/SD/ESP/Q/PBS	50	0	0	0	0	0	0	0	83	8	Add CI
229	INC	WHB/ACS/HCS/CS	75	21	0	0	62	75	0	75	96	43	Add AB + RH + CB + IWS
324	INC	?	50	0	88	28	68	0	0	0	75	13	Add RH + CI + FF + PT
325	INC	SD/FF/WS/IWS	77	0	10	0	0	75	0	0	0	15	Moderate DOM on existing FF + PT + CI
327	INC	SD/FF/WS/ESP	99	0	0	0	0	0	4	0	99	53	Moderate DOM on combustor + Add CI
329	INC	PT/IWS	75	51	75	75	0	0	0	0	50	9	Add RH + CI + FF
330	INC	QT/WS/DM	0	64	76	0	34	0	50	0	99	56	Moderate DOM on combustor & WS + Add RH + CI + FF
331	INC	PT/IWS	85	0	98	0	75	75	0	0	0	13	Add RH + CI + FF + PT
332	INC	WS	25	87	0	0	13	93	0	90	75	39	Add AB + RH + CI + FF + PT
333	INC	SD/FF	0	0	0	50	42	0	0	0	0	14	Moderate DOM on existing SD & FF
334	INC	WS/ESP/PT	0	73	98	84	0	0	0	33	89	54	Moderate DOM on combustor + Add RH + CI + FF
337	INC	WHB/DA/DI/FF	96	0	3	64	0	73	0	0	0	58	Moderate DOM on existing FF & DI + Add CI
338	INC	QC/FF/SS/C/HES/DM	89	0	0	0	0	0	0	0	0	8	Add CI
339	INC	AT/PT/RJS/ESP	75	0	25	0	0	0	0	0	0	28	Moderate DOM on ESP + RH + CB
340	INC	WHB/ESP/WS	35	0	0	0	0	50	0	0	75	59	Moderate DOM on WS + Add WQ + CI
341	INC	DA/DI/FF/HEPA/CA	0	0	0	0	0	0	50	13	50	53	Moderate DOM on combustor + Add CI
342	INC	WHB/QC/S/VS/DM	1	0	0	0	0	75	0	0	0	40	Add RH + CB + PT
344	INC	QC/VS/PT/DM	50	0	0	0	0	0	0	0	25	9	Add RH + CI + FF
346	INC	C/QC/VS/PT/DM	0	0	11	0	0	75	0	0	0	60	Small DOM on existing VS + Add PT
347	INC	C/QC/VS/S/DM	0	0	0	0	0	0	0	0	0	1	None
348	INC	QC/AS/IWS	75	0	0	0	0	0	0	0	75	32	Add RH + CB
349	INC	QC/FF/QC/PT	0	0	0	75	50	75	0	0	0	4	Add IWS
350	INC	WHB/HE/FF	0	0	75	50	0	0	0	0	0	6	Add FF
351	INC	GC/C/FF	50	0	0	0	0	50	0	32	50	46	Moderate DOM on combustor + Add CI + PT
353	INC	QC/VS/DM/ESP	0	31	20	33	0	0	0	0	0	17	Moderate DOM on existing ESP
354	INC	QC/AS/VS/DM/IWS	0	0	0	0	0	0	0	0	0	1	None
356	INC	QC/AS/FN/DM	75	52	0	0	0	75	25	0	75	24	Moderate DOM on combustor + Add RH + CI + FF + PT
357	INC	QC/VS/PT/IWS	75	39	75	0	0	0	75	0	0	25	Add AB + RH + CI + FF
358	INC	QC/VS/C/CT/S/DM	50	53	50	0	0	75	0	0	0	13	Add RH + CI + FF + PT
359	INC	WHB/FF/S	75	20	85	100	0	0	0	50	0	54	Moderate DOM on combustor + Add RH + CI + FF
400	INC	SD/FF	58	0	89	28	0	75	50	0	50	38	Moderate DOM on combustor + Add IWS + CI
500	INC	QC/VS/KOV/DM	0	0	0	0	0	85	0	0	0	2	Add PT
502	INC	WHB/QC/PBC/VS/ES	50	57	94	0	0	0	0	75	0	25	Add AB + RH + CI + FF

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 2b with 25% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	HC	CO	D/F		
503	INC	HTHE/LTHE/FF	57	43	90	81	0	75	0	50	75	38	Moderate DOM on combustor + Add IWS + CI
504	INC	VS/C	100	17	0	47	0	0	0	0	0	9	Add RH + CI + FF
600	INC	WHB/QC/PT/IWS	0	0	0	50	0	75	0	0	0	4	Add IWS
700	INC	SD/RJS/VS/WS	0	65	100	89	0	0	0	0	0	6	Add FF
701	INC	VS/PT	75	65	0	75	0	0	0	0	50	9	Add RH + CI + FF
702	INC	QT/S/C	0	82	75	0	0	75	0	0	75	13	Add RH + CI + FF + PT
703	INC	WHB	75	0	0	0	90	0	0	0	0	20	Add WQ + CB + PT
704	INC	NONE	0	23	0	0	78	50	0	0	0	4	Add IWS
705	INC	QT/VS/ESP/PT	48	44	53	33	0	0	0	0	75	9	Add RH + CI + FF
706	INC	QT/HS/C	75	65	0	0	0	75	4	0	0	24	Moderate DOM on combustor + Add RH + CI + FF + PT
707	INC	QT/WS	0	63	75	0	0	0	0	99	50	25	Add AB + RH + CI + FF
708	INC	WS/ESP	0	40	0	50	0	75	0	0	75	13	Add RH + CI + FF + PT
709	INC	NONE	50	63	0	0	0	0	0	0	0	10	Add WQ + CB + FF
710	INC	QT/OS/C/S	50	46	75	0	63	99	61	0	0	24	Moderate DOM on combustor + Add RH + CI + FF + PT
711	INC	C/VS/AS	0	48	0	0	0	75	50	0	75	24	Moderate DOM on combustor + Add RH + CI + FF + PT
712	INC	NONE	0	31	0	0	0	0	0	0	0	6	Add FF
713	INC	VS/PT	75	78	50	0	0	75	0	0	75	13	Add RH + CI + FF + PT
714	INC	WS	0	18	75	0	33	0	0	0	50	3	Moderate DOM on existing WS + Add RH + CI + FF
725	INC	WS/QT	0	25	0	0	0	98	0	0	4	13	Add RH + CI + FF + PT
726	INC	QC/CS/DM/VS	75	0	75	75	0	75	66	0	0	24	Moderate DOM on combustor + Add RH + CI + FF + PT
727	INC	GC/C/FF	0	82	75	50	0	0	97	98	0	21	Add FF + AB
728	INC	QT/PT/VS	0	65	0	0	0	75	0	0	75	37	Moderate DOM on existing VS + Add RH + CB + PT
784	INC	NONE	0	63	75	50	96	0	0	0	0	33	Moderate DOM on combustor + Add IWS
805	INC	QT/QS/VS/ES/PBS	0	73	0	0	50	74	0	85	75	39	Add AB + RH + CI + FF + PT
806	INC	C/VS	96	66	85	0	25	75	67	75	0	39	Add AB + RH + CI + FF + PT
807	INC	C/WHB/VQ/PT/HS/DM	42	39	55	53	0	0	0	0	43	9	Add RH + CI + FF
808	INC	QT/PBS/ESP	0	0	75	50	0	0	0	2	0	55	Moderate DOM on combustor + Add FF
809	INC	VS	50	0	99	98	0	75	0	96	75	39	Add AB + RH + CI + FF + PT
810	INC	Q/VS/PBS	75	0	95	87	0	0	0	0	0	9	Add RH + CI + FF
824	INC	QT/VS/PT/DM	0	0	0	30	0	75	0	0	0	23	Moderate DOM on combustor & VS + Add PT
825	INC	CCS/QC/ESP	50	80	0	0	0	0	0	75	50	25	Add AB + RH + CI + FF
902	INC	QT/VS/PT	86	28	0	0	0	0	0	0	0	9	Add RH + CI + FF
904	INC	?	0	0	75	0	0	0	35	0	0	55	Moderate DOM on combustor + Add FF
905	INC	QT/VS/AS/CS	0	0	100	57	0	0	0	0	25	54	Moderate DOM on combustor + Add RH + CI + FF
906	INC	QT/PT	75	78	25	75	76	50	0	0	75	42	Add RH + CB + IWS
914	INC	?	0	0	0	50	25	92	75	0	95	39	Add AB + RH + CI + FF + PT
915	INC	QC/VS/C	50	73	93	88	0	0	77	92	53	25	Add AB + RH + CI + FF

TABLE C-12C. CHARACTERIZATION OF ATF MODEL PLANTS, OPTION 2B, 25%FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
CK	Group 3	Add FF	1	228 *	S	Ash Grove	ESP	148,537	147,000	
	Group 4	Add CI + FF	1	207	S	Keystone	MC/ESP	90,681	147,000	
			1	301	S	Essroc	FF	185,409	147,000	
			2	302 *	S	Lafarge	ESP	130,576	147,000	
			3	308 *	S	North Texas	ESP	162,599	147,000	
			1	315 *	S	Southdown	FF	102,042	147,000	
			4	318 *	S	Texas Industries	ESP	152,675	147,000	
			1	401	S	Ash Grove	ESP	172,481	147,000	
			1	405	S	Ash Grove	ESP	194,905	147,000	
			1	202	L	Heartland	FF	221,421	370,000	
			1	205	L	Holnam	ESP	253,556	370,000	
			1	208	L	Keystone	ESP	307,644	370,000	
			1	303	L	Lone Star	MC/FF	408,681	370,000	
	Group 5	Add WQ + CI + FF	2	200	S	Giant	FF	123,584	147,000	
			2	300	S	Essroc	ESP	164,692	147,000	
			1	403	S	Ash Grove	ESP	184,877	147,000	
			1	204	L	Holnam	ESP	693,613	370,000	
			1	304	L	Lone Star	ESP	300,367	370,000	
			1	306	L	National	MC/FF	280,868	370,000	
			1	309	L	River Cement	MC/ESP	665,839	370,000	
			1	316 *	L	Southdown	FF	nr	370,000	
			1	317	L	Southdown	FF	422,190	370,000	
	Group 8	Add CI + FF + PT	1	321 *	S	Lafarge	ESP	59,542	147,000	85
			1	402	S	Ash Grove	ESP	187,605	147,000	85
			3	320 *	L	Lafarge	FF	nr	370,000	85
	Group 16	Add WQ + CI + FF + PT	2	305 *	S	Medusa	ESP	196,903	147,000	85
			1	323	S	Lafarge	FF	185,409	147,000	85
			1	335	S	Medusa	ESP	100,378	147,000	85
			1	203	L	Holnam	ESP	291,645	370,000	85
			1	206	L	Holnam	ESP	348,510	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
	Group 19	Add WQ + IWS	1	404	L	Ash Grove	ESP	265,721	370,000	85
	Group 20	Moderate DOM on ESP + Add WQ	1	322	S	Lafarge	ESP	112,269	147,000	
	Group 21	Moderate DOM on FF + WQ	2	201 *	S	Giant	FF	137,945	147,000	
LWAK	Group 9	Add AB + WQ + CI + FF	1	224 *	M	Solite	FF	39,049	40,500	
			1	226 *	M	Solite	FF	nr	40,500	
			1	227	M	Solite	FF	38,796	40,500	
			2	307 *	M	Norlite	FF/VS	49,050	40,500	
			1	310 *	M	Solite	FF	47,770	40,500	
			1	314 *	M	Solite	FF	36,793	40,500	
			1	336 *	M	Solite	FF	30,336	40,500	
	Group 11	Add AB + WQ + CI + FF + ST	1	223 *	M	Solite	FF	29,092	40,500	1,570
			1	311 *	M	Solite	FF	51,627	40,500	1,570
			1	312 *	M	Solite	FF	47,698	40,500	1,570
	Group 12	Add AB + WQ	1	225 *	M	Solite	FF	38,270	40,500	
	Group 16	Add AB + WQ + FF	1	313 *	M	Solite	FF	36,793	40,500	

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
INC	Group 1	None	1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
			1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
	Group 2	Add PT	1	500	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92
	Group 3	Moderate DOM on existing WS + Add RH + CI + FF	2	714 *	M	Olin Chemical	WS	19,185	22,100	
	Group 4	Add IWS	2	349 *	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
			1	704	S	Ashland	NONE	5,011	3,900	92
			1	600 *	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
	Group 6	Add FF	1	350 *	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
			1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	Moderate DOM on existing FF & WS	1	212	L	LWD	FF/S	44,610	60,800	
	Group 8	Add CI	1	222	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
			1	338	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add RH + CI + FF	1	344 *	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	701 *	M	Eli Lilly	VS/PT	9,208	22,100	
			1	705	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	
			1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
			1	810 *	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	329 *	L	Dupont	PT/IWS	53,489	60,800	
	Group 10	Add WQ + CB + FF	1	709 *	S	Cargill Chemical	NONE	3,123	3,900	
	Group 13	Add RH + CI + FF + PT	1	708 *	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
			1	713 *	S	Pfizer	VS/PT	2,625	3,900	92
			1	725	S	Zeneca	WS/QT	1,489	3,900	92
			1	324 *	M	Allied	?	12,120	22,100	92
			1	358 *	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	702 *	M	Dupont	QT/S/C	nr	22,100	92
			1	211 *	L	LWD	SS/PT/VS	43,596	60,800	92
			1	221	L	Rollins	PT	51,114	60,800	92
			1	331 *	L	Ross	PT/IWS	44,379	60,800	92
	Group 14	Moderate DOM on existing SD & FF	1	333 *	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	Moderate DOM on existing FF + PT + CI	1	325 *	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92
	Group 17	Moderate DOM on existing ESP	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
	Group 20	Add WQ + CB + PT	1	703 *	S	Aristech	WHB	1,873	3,900	92
	Group 21	Add FF + AB	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
	Group 23	Moderate DOM on combustor & VS + Add PT	1	824 *	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92
	Group 24	Moderate DOM on combustor + Add RH + CI + FF + PT	1	356 *	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	726 *	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	706 *	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
			1	710 *	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	711 *	L	Chevron Chemical	C/VS/AS	52,907	60,800	92

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
	Group 25	Add AB + RH + CI + FF	1	502 *	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	
			1	357 *	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	825 *	M	General Electric	CCS/QC/ESP	21,363	22,100	
			1	915	M	Eastman Kodak	QC/VS/C	nr	22,100	
			1	216 *	L	Rollins	HES/WS	40,002	60,800	
			1	707	L	Dupont	QT/WS	58,120	60,800	
	Group 28	Moderate DOM on ESP + RH + CB	1	339 *	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
	Group 29	Small DOM on existing IWS + Add RH + CI+FF	1	214 *	M	Rollins	IWS	34,655	22,100	
			1	210 *	L	LWD	FF/S	96,107	60,800	
	Group 32	Add RH + CB	1	348 *	S	Occidental Chemical	QC/AS/IWS	nr	3,900	
	Group 33	Moderate DOM on combustor + Add IWS	1	784	S	Cook Composites	NONE	nr	3,900	92
	Group 37	Moderate DOM on existing VS + Add RH + CB + PT	1	728 *	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
	Group 38	Moderate DOM on combustor + Add IWS + CI	1	503 *	S	Lake City Army Ammo Plan	HTHE/LTHE/FF	4,747	3,900	92
			1	400 *	L	Marine Shale	SD/FF	179,333	60,800	92
	Group 39	Add AB + RH + CI + FF + PT	1	332 *	M	Thermalkem	WS	20,208	22,100	92
			1	805 *	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	92
			1	806 *	M	Amoco Oil	C/VS	20,641	22,100	92
			1	914 *	M	Vertac Superfund	?	25,849	22,100	92
			1	809 *	L	Tennessee Eastman	VS	40,524	60,800	92
	Group 40	Add RH + CB + PT	1	342 *	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92
	Group 42	Add RH + CB + IWS	1	906 *	S	Monsanto	QT/PT	2,738	3,900	92
	Group 43	Add AB + RH + CB + IWS	1	229 *	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92
	Group 46	Moderate DOM on combustor + Add CI + PT	1	351 *	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
	Group 52	Add AB + WQ + PT	1	209 *	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 53	Moderate DOM on combustor + Add CI	1	341 *	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	327	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
	Group 54	Moderate DOM on combustor + Add RH + CI + FF	1	905 *	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	359 *	M	Atochem	WHB/FF/S	13,802	22,100	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	
	Group 55	Moderate DOM on combustor + Add FF	1	904 *	S	First Chemical	?	5,950	3,900	
			1	808 *	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
	Group 56	Moderate DOM on combustor & WS + Add RH + CI + FF	1	330 *	M	General Electric	QT/WS/DM	10,345	22,100	
	Group 58	Moderate DOM on existing FF & DI + Add CI	2	337	M	Olin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 59	Moderate DOM on WS + Add WQ + CI	1	340 *	M	Miles	WHB/ESP/WS	16,003	22,100	92
	Group 60	Small DOM on existing VS + Add PT	1	346 *	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribution of reported values from other facilities.
** Reported Ratio is equal to the number of total units located at a site divided by the number of units for which information was reported.
Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units.
nr = not reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 3	S	Add FF	1	$2,141K	$355K	$596K
	Group 4	S	Add CI,FF	14	$2,611K	$718K	$1,022K
		L		4	$5,658K	$1,490K	$2,139K
	Group 5	S	Add Q,CI,FF	5	$3,144K	$806K	$1,180K
		L		6	$6,570K	$1,645K	$2,414K
	Group 8	S	Add CI,FF,PT	2	$3,512K	$1,048K	$1,498K
		L		3	$7,593K	$2,174K	$3,138K
	Group 16	S	Add Q, CI, FF, PT	4	$4,045K	$1,136K	$1,656K
		L		3	$8,505K	$2,329K	$3,413K
	Group 19	L	Add Q, IWS	1	$5,322K	$902K	$1,740K
	Group 20	S	Moderate DOM on existing ESP, Add Q	1	$2,290K	$237K	$538K
	Group 21	S	Moderate DOM on existing FF, Add Q	2	$658K	$129K	$203K
LWAK	Group 9	M	Add AB, Q, CI, FF	8	$1,883K	$1,615K	$1,850K
	Group 11	M (hi HCl)	Add AB, Q, CI, FF, ST	3	$3,112K	$1,944K	$2,380K
	Group 12	M	Add AB, Q	1	$809K	$1,264K	$1,371K
	Group 16	M	Add AB, Q, FF	1	$1,470K	$1,425K	$1,606K
Incinerators	Group 1	M	None	2	$0K	$0K	$0K
	Group 2	L	Add PT	1	$445K	$195K	$267K
	Group 3	M	DOM WS mod, Add RH,CI/CB,FF	2	$1,004K	$405K	$541K
	Group 4	S	Add IWS	3	$215K	$97K	$132K
		L		1	$1,331K	$228K	$445K
	Group 6	M	Add FF	2	$295K	$121K	$154K
		L		1	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
	Group 8	L	Add CI/CB	2	$425K	$224K	$280K
	Group 9	M	Add RH, CI/CB, FF	7	$932K	$391K	$508K
		L		1	$1,681K	$672K	$876K
	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
	Group 13	S	Add PT, RH, CI/CB, FF	3	$632K	$331K	$414K
		M		3	$1,137K	$515K	$665K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators		L		3	$2,126K	$866K	$1,143K
(cont.)	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	1	$620K	$278K	$364K
	Group 17	M	DOM ESP mod	1	$535K	$50K	$120K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K
	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
	Group 23	S	DOM VS mod, DOM Combustor, Add PT	1	$185K	$96K	$128K
	Group 24	S	DOM combustor, Add PT,RH,CI/CB,FF	2	$749K	$331K	$433K
		M		2	$1,291K	$515K	$690K
		L		1	$2,312K	$866K	$1,173K
	Group 25	S	Add AB,RH,CI/CB,FF	1	$840K	$433K	$542K
		M		3	$1,349K	$924K	$1,096K
		L		2	$2,223K	$1,947K	$2,223K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$178K	$267K
	Group 29	M	DOM IWS small, Add RH,CI/CB,FF	1	$972K	$403K	$528K
		L		1	$1,782K	$702K	$925K
	Group 32	S	Add RH, CB/CI	1	$493K	$152K	$216K
	Group 33	S	DOM Combustor, Add IWS	1	$331K	$97K	$151K
	Group 37	S	Moderate DOM on existng VS, Add RH, CI/CB, PT	1	$561K	$248K	$326K
	Group 38	S	Moderate DOM on Combustor, Add CI/CB, IWS	1	$672K	$188K	$287K
		L		1	$1,941K	$452K	$755K
	Group 39	M	Add RH, CI/CB, FF, PT, AB	4	$1,554K	$1,048K	$1,253K
		L		1	$2,669K	$2,142K	$2,490K
	Group 40	S	Add RH, CI/CB, PT	1	$550K	$242K	$316K
	Group 42	S	Add RH, CI/CB, IWS	1	$708K	$249K	$348K
	Group 43	S	Add RH, CI/CB, IWS, AB	1	$973K	$441K	$576K
	Group 46	S	Moderate DOM on Combustor, Add CI/CB, PT	1	$514K	$181K	$254K
	Group 52	M	Add AB, Q, PT	1	$899K	$706K	$830K
	Group 53	M	Moderate DOM on Combustor, Add CI/CB	1	$551K	$147K	$225K
		L		1	$610K	$224K	$310K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators (cont.)	Group 54	S	Moderate DOM on Combustor, Add RH, CI/CB, FF	1	$691K	$241K	$334K
		M		1	$1,087K	$391K	$533K
		L		1	$1,866K	$672K	$906K
	Group 55	S	Moderate DOM on Combustor, Add FF	1	$198K	$89K	$117K
		M		1	$450K	$121K	$179K
	Group 56	M	Moderate DOM on WS, Combustor, Add RH, CI/CB, FF	1	$1,158K	$405K	$566K
	Group 58	M	Moderate DOM on existing FF and DI, Add CI/CB	2	$778K	$174K	$286K
	Group 59	M	Moderate DOM on existing WS, Add CI/CB, Q	1	$746K	$210K	$317K
	Group 60	M	Small DOM on existing VS, Add PT	1	$244K	$137K	$178K

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj.% Reduct.	PM Req. % Reduct.	PM Adj.% Reduct.	SVM Req. % Reduct.	SVM Adj.% Reduct.	LVM Req. % Reduct.	LVM Adj.% Reduct.	HCl Req. % Reduct.	HCl Adj.% Reduct.	Cl2 Req. % Reduct.	Cl2 Adj.% Reduct.	HC Req. % Reduct.	HC Adj.% Reduct.	CO Req. % Reduct.	CO Adj.% Reduct.	TEQ Req. % Reduct.	TEQ Adj.% Reduct
Floor Levels		5.00		0.015		60.00		80.00		60.00		1.00		20.00		na		0.20	
200	CK	50.32	50	-9.24	0	11.79	12	79.20	79	-259.90	0	-9939.48	0	nr	0	na	na	nr	25
201	CK	-88.50	0	-15.21	0	-19.45	0	76.95	77	-207.84	0	-19113.07	0	nr	0	na	na	nr	75
202	CK	75.67	76	37.31	37	47.29	47	-171.43	0	-266.57	0	-275.34	0	nr	0	na	na	nr	0
203	CK	16.29	16	-9.76	0	89.11	89	-189.88	0	46.51	47	-31.41	0	-5.26	0	na	na	96.43	96
204	CK	71.34	71	50.13	50	87.34	87	-1160.17	0	-100402.56	0	-9353.25	0	nr	0	na	na	64.91	65
205	CK	83.07	83	67.61	68	95.82	96	-302.25	0	-284.42	0	-388.22	0	10.95	0	na	na	-103.05	0
206	CK	69.25	69	37.46	37	77.89	78	-833.89	0	25.32	25	-2331.38	0	-65.62	0	na	na	82.61	83
207	CK	70.08	70	34.01	34	83.38	83	-314.49	0	-1282.53	0	-241.01	0	nr	0	na	na	-1150.00	0
208	CK	75.74	76	-4.38	0	30.45	30	-569.85	0	-1415.29	0	-329.31	0	nr	0	na	na	-4238.39	0
228	CK	nr	75	nr	50	nr	75	nr	0	nr	0	nr	0	-18.34	0	na	na	2.44	0
300	CK	nr	75	79.02	79	96.85	97	8.66	9	-80.21	0	-241.59	0	-4.58	0	na	na	98.33	98
301	CK	95.68	96	61.90	62	-558.71	0	-376.85	0	-27041.50	0	-464.49	0	-65.70	0	na	na	nr	75
302	CK	nr	50	27.68	28	93.18	93	-292.55	0	-518.37	0	-113.63	0	nr	0	na	na	nr	75
303	CK	82.82	83	34.78	35	-137.38	0	-574.52	0	-1488.16	0	-912.24	0	66.67	0	na	na	nr	0
304	CK	88.94	89	74.45	74	90.27	90	-98.82	0	-17386.05	0	-23156.06	0	nr	0	na	na	88.89	89
305	CK	53.45	53	79.40	79	94.43	94	-169.43	0	42.41	42	-310.12	0	10.42	0	na	na	99.65	99
306	CK	99.86	100	0.47	0	-270.97	0	-504.69	0	-2784.36	0	-494.23	0	nr	0	na	na	-266.30	0
308	CK	nr	75	31.82	32	33.16	33	-968.07	0	-1230.02	0	-30.46	0	nr	0	na	na	nr	75
309	CK	87.05	87	37.11	37	89.71	90	-1574.72	0	-26.92	0	-796.72	0	-32.45	0	na	na	99.62	99
315	CK	nr	75	-1320.07	0	-307.71	0	-615.13	0	-2884.12	0	-4051.35	0	nr	0	na	na	nr	75
316	CK	nr	50	-27.22	0	-963.78	0	-1053.42	0	-129.09	0	-10.72	0	-233.33	0	na	na	nr	75
317	CK	nr	75	-565.43	0	-108.38	0	-241.51	0	-1254.51	0	-1965.79	0	64.17	0	na	na	83.87	84
318	CK	nr	75	-62.51	0	53.66	54	-332.38	0	-26.00	0	-1105.30	0	-207.69	0	na	na	nr	75
319	CK	90.96	91	60.00	60	90.38	90	-25.95	0	-0.72	0	90.21	90	68.94	0	na	na	96.42	96
320	CK	nr	75	-399.99	0	-2606.88	0	-1709.29	0	-2026.92	0	51.83	52	80.10	0	na	na	-136.97	0
321	CK	nr	50	85.71	86	-802.93	0	-1294.44	0	-1248.40	0	60.91	61	nr	0	na	na	nr	0
322	CK	nr	0	-15.38	0	59.73	60	-208.71	0	-178.41	0	-390.28	0	-170.27	0	na	na	92.54	93
323	CK	nr	75	46.43	46	93.06	93	0.42	0	27.48	27	-1080.36	0	-90.48	0	na	na	94.44	94
335	CK	87.59	88	25.96	26	91.37	91	-647.06	0	45.86	46	-148.24	0	-12.55	0	na	na	99.20	99
401	CK	91.75	92	71.20	71	93.35	93	19.03	19	-179.24	0	-76.83	0	61.33	0	na	na	48.72	49
402	CK	84.44	84	71.96	72	98.23	98	24.87	25	-325.73	0	71.36	71	33.05	0	na	na	nr	0
403	CK	99.43	99	56.69	57	-100.61	0	-143.20	0	-10132.30	0	-4529.68	0	-13.19	0	na	na	81.31	81
404	CK	-17.57	0	-214.09	0	-7.97	0	37.49	37	14.29	14	33.74	34	-25.96	0	na	na	77.88	78
405	CK	75.23	75	31.72	32	93.69	94	72.09	72	-2468.19	0	-173.45	0	6.65	0	na	na	nr	50

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj.% Reduct.	PM Req. % Reduct.	PM Adj.% Reduct.	SVM Req. % Reduct.	SVM Adj.% Reduct.	LVM Req. % Reduct.	LVM Adj.% Reduct.	HCl Req. % Reduct.	HCl Adj.% Reduct.	Cl2 Req. % Reduct.	Cl2 Adj.% Reduct.	HC Req. % Reduct.	HC Adj.% Reduct.	CO Req. % Reduct.	CO Adj.% Reduct.	TEQ Req. % Reduct.	TEQ Adj.% Reduct
Floor Levels		5.00		0.015		60.00		80.00		60.00		1.00		20.00		100.00		0.20	
223	LWAK	83.87	84	-479.94	0	-962.76	0	-124.69	0	97.22	97	-59.74	0	nr	0	nr	0	nr	0
224	LWAK	65.09	65	-427.20	0	-1408.79	0	-331.05	0	-6137.91	0	-131.30	0	nr	0	nr	0	nr	0
225	LWAK	-6.84	0	-4045.81	0	-6064.30	0	-692.88	0	90.05	90	-614.29	0	nr	0	nr	0	nr	0
226	LWAK	nr	50	-1385.13	0	nr	0	nr	0	nr	75	nr	0	nr	0	nr	0	nr	0
227	LWAK	70.07	70	-926.73	0	-193.58	0	-297.03	0	96.05	96	-132.62	0	-60.00	0	92.51	0	nr	0
307	LWAK	98.98	99	-38.09	0	-946.18	0	-25.21	0	-173.13	0	-70.00	0	nr	0	-120.61	0	nr	0
310	LWAK	63.85	64	6.25	6	82.19	82	-33.99	0	94.97	95	54.57	55	nr	0	nr	0	nr	0
311	LWAK	66.92	67	-150.00	0	86.54	87	-121.23	0	95.09	95	86.43	86	nr	0	nr	0	nr	0
312	LWAK	40.68	41	-114.28	0	85.87	86	-126.36	0	95.35	95	87.67	88	nr	0	nr	0	nr	0
313	LWAK	-1248.51	0	-150.00	0	86.65	87	72.82	73	96.08	96	-61.85	0	nr	0	nr	0	nr	0
314	LWAK	80.16	80	42.18	42	96.37	96	60.57	61	92.68	93	48.45	48	nr	0	nr	0	nr	0
336	LWAK	nr	75	-84.34	0	nr	75	nr	0	nr	75	nr	75	nr	0	nr	0	-418.13	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj.% Reduct.	PM Req. % Reduct.	PM Adj.% Reduct.	SVM Req. % Reduct.	SVM Adj.% Reduct.	LVM Req. % Reduct.	LVM Adj.% Reduct.	HCl Req. % Reduct.	HCl Adj.% Reduct.	Cl2 Req. % Reduct.	Cl2 Adj.% Reduct.	HC Req. % Reduct.	HC Adj.% Reduct.	CO Req. % Reduct.	CO Adj.% Reduct.	TEQ Req. % Reduct.	TEQ Adj.% Reduct
Floor Levels		5.00		0.015		60.00		80.00		25.00		1.00		20.00		100.00		0.20	0
209	INC	-56.03	0	-223.01	0	-650.89	0	-254.98	0	-135.39	0	95.33	95	nr	25	63.16	63	nr	75
210	INC	nr	0	-192.21	0	nr	50	nr	75	25.55	26	-217.40	0	-415.91	0	-27385.21	0	nr	25
211	INC	nr	50	-44.23	0	nr	75	nr	50	-7.85	0	87.71	88	-760.67	0	-2002.04	0	nr	0
212	INC	nr	75	36.13	36	nr	0	nr	0	71.26	71	-491.78	0	-478.16	0	-1934.62	0	nr	0
214	INC	97.48	97	35.45	35	91.85	92	47.30	47	-1644.19	0	nr	25	-1521.60	0	-561.99	0	-237.84	0
216	INC	75.83	76	50.15	50	92.40	92	38.76	39	-165.50	0	nr	0	nr	0	-869.84	0	nr	0
221	INC	40.24	40	-5.42	0	-46.48	0	-31.44	0	-104.71	0	83.63	84	-464.12	0	-552.36	0	52.38	52
222	INC	nr	50	-597.56	0	-2035.46	0	nr	0	-1667.15	0	-167.01	0	-6003.91	0	-167.49	0	82.76	83
229	INC	nr	75	21.26	21	-32.26	0	-33.89	0	71.33	71	nr	75	nr	0	nr	75	96.38	96
324	INC	nr	50	-38.89	0	90.69	91	27.68	28	75.75	76	nr	0	nr	0	-219.83	0	nr	75
325	INC	82.70	83	-361.53	0	32.20	32	-152.27	0	-367.54	0	nr	75	-2263.92	0	-867.74	0	nr	0
327	INC	99.42	99	-1094.70	0	-192.11	0	-200.94	0	-670.26	0	-453.59	0	-284.23	0	-1096.05	0	98.75	99
329	INC	nr	75	50.74	51	nr	75	nr	75	-256.06	0	-181.09	0	-708.58	0	-935.58	0	nr	50
330	INC	4.09	4	64.37	64	82.35	82	-49.79	0	50.72	51	nr	0	nr	0	nr	0	99.25	99
331	INC	88.98	89	-87.50	0	98.38	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-191.97	0
332	INC	nr	25	87.30	87	nr	0	nr	0	34.85	35	94.78	95	nr	0	80.00	80	nr	75
333	INC	nr	0	-1053.82	0	nr	0	nr	50	56.80	57	-76.65	0	nr	0	-2136.89	0	nr	0
334	INC	16.42	16	72.94	73	98.68	99	84.07	84	-57.03	0	nr	0	-885.83	0	-34.96	0	89.47	89
337	INC	96.95	97	-6247.01	0	27.17	27	64.19	64	-7078.53	0	80.05	80	-514.48	0	-13061.51	0	nr	0
338	INC	91.74	92	-1099.99	0	-102.30	0	-5.63	0	-16691.60	0	-1938.12	0	-994.39	0	-4878.93	0	nr	0
339	INC	nr	75	-414.21	0	nr	50	nr	0	-43.75	0	-7449.86	0	-1513.97	0	nr	0	nr	0
340	INC	51.48	51	-130.06	0	-588.07	0	-597.04	0	-49.86	0	nr	75	-1138.46	0	-238.04	0	nr	75
341	INC	-435.90	0	-916.94	0	-333.83	0	-944.00	0	-1595.10	0	nr	0	nr	0	-73.46	0	nr	50
342	INC	25.42	25	-316.97	0	-210.32	0	-3408.50	0	-11883.28	0	nr	75	nr	0	nr	0	nr	0
344	INC	nr	50	-826.62	0	-271.78	0	-16.98	0	-2652.25	0	nr	0	-1015.00	0	-519.62	0	nr	25
346	INC	-1698.05	0	-1067.30	0	33.47	33	-553.14	0	-3233.16	0	nr	75	nr	0	-255.68	0	-63.93	0
347	INC	3.20	3	-115.39	0	-468.68	0	-443.92	0	-1578.83	0	nr	0	nr	0	nr	0	-936.27	0
348	INC	nr	75	-1399.99	0	-593.53	0	-2435.15	0	-44841.42	0	-100.54	0	nr	0	-1104.17	0	nr	75
349	INC	nr	0	-690.51	0	-60.84	0	nr	75	nr	50	nr	75	nr	0	-1053.22	0	nr	0
350	INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-2870.43	0	nr	0
351	INC	nr	50	-68.16	0	nr	0	-645.40	0	nr	0	nr	75	nr	0	-35.23	0	nr	50
353	INC	-23.87	0	30.81	31	40.23	40	32.99	33	nr	0	nr	0	nr	0	-529.10	0	-57.48	0
354	INC	-498.43	0	-141.54	0	-2429.72	0	-684.78	0	-4154.36	0	14.29	14	nr	0	-3281.50	0	-2624.80	0
356	INC	nr	75	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	0	-2601.64	0	nr	75
357	INC	nr	75	38.53	39	nr	75	nr	0	-268.06	0	nr	0	nr	0	-808.60	0	nr	0
358	INC	nr	50	52.79	53	nr	50	nr	0	-728.93	0	nr	75	nr	0	-6563.08	0	nr	0
359	INC	nr	75	19.91	20	88.43	88	99.85	100	-211.26	0	nr	0	nr	0	-0.58	0	nr	0
400	INC	68.86	69	-152.37	0	91.99	92	27.87	28	nr	0	nr	75	nr	0	nr	0	nr	50
500	INC	-67.73	0	-767.27	0	-2012.85	0	-2249.06	0	-80.57	0	88.95	89	nr	0	nr	0	-430.50	0
502	INC	nr	50	57.14	57	95.25	95	-5.12	0	-19.38	0	nr	0	nr	0	nr	0	-796.86	0
503	INC	67.77	68	43.40	43	92.20	92	81.34	81	nr	0	nr	75	nr	0	nr	50	nr	75
504	INC	99.73	100	16.67	17	-54.59	0	46.56	47	-446.47	0	nr	0	nr	0	nr	0	nr	0
600	INC	nr	25	-100.00	0	nr	0	nr	50	-2035.24	0	nr	75	nr	0	nr	0	nr	0
700	INC	-11.67	0	65.40	65	99.77	100	88.65	89	-89.72	0	-726.66	0	nr	0	nr	0	nr	0
701	INC	nr	75	65.22	65	nr	0	nr	75	-132.29	0	nr	0	-2497.40	0	nr	0	nr	50
702	INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr	75
703	INC	nr	75	-400.00	0	nr	0	nr	0	92.28	92	nr	0	-5235.72	0	-8580.92	0	nr	0
704	INC	nr	25	23.08	23	nr	0	nr	0	83.78	84	nr	75	nr	0	-2184.48	0	nr	0
705	INC	61.00	61	43.74	44	64.66	65	32.84	33	-154.15	0	nr	0	nr	0	-3364.34	0	nr	75
706	INC	nr	75	64.87	65	nr	0	nr	0	-4633.70	0	nr	75	-285.81	0	-151.49	0	-895.02	0
707	INC	nr	0	62.86	63	nr	75	nr	0	-394.52	0	nr	0	nr	0	98.57	99	nr	50
708	INC	nr	0	39.80	40	nr	0	nr	50	-3334.37	0	nr	75	nr	0	-1047.43	0	nr	75
709	INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-1464.15	0	-1188.66	0	nr	0
710	INC	nr	50	45.78	46	nr	75	nr	0	72.29	72	99.33	99	-57.89	0	-240.91	0	nr	0
711	INC	nr	25	47.67	48	nr	0	nr	0	-2880.51	0	nr	75	nr	0	-591.02	0	nr	75

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj.% Reduct.	PM Req. % Reduct.	PM Adj.% Reduct.	SVM Req. % Reduct.	SVM Adj.% Reduct.	LVM Req. % Reduct.	LVM Adj.% Reduct.	HCl Req. % Reduct.	HCl Adj.% Reduct.	Cl2 Req. % Reduct.	Cl2 Adj.% Reduct.	HC Req. % Reduct.	HC Adj.% Reduct.	CO Req. % Reduct.	CO Adj.% Reduct.	TEQ Req. % Reduct.	TEQ Adj.% Reduct
712	INC	nr	0	30.97	31	-2569.12	0	-241.79	0	nr	0	nr	0	nr	0	nr	0	nr	0
713	INC	nr	75	77.78	78	nr	50	nr	0	4.33	4	nr	75	nr	0	-4897.31	0	nr	75
714	INC	nr	0	18.48	18	nr	75	nr	0	50.00	50	nr	0	nr	0	-490.50	0	nr	50
725	INC	-210.22	0	24.62	25	-52.46	0	-69.64	0	-361.62	0	98.28	98	-1042.86	0	-2320.90	0	3.85	4
726	INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	-36.95	0	-394.32	0	nr	0
727	INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	89.16	89	95.49	95	nr	0
728	INC	nr	0	65.04	65	nr	0	nr	0	-6322.20	0	nr	75	nr	0	nr	0	nr	75
784	INC	nr	0	63.41	63	nr	75	nr	50	97.23	97	nr	0	nr	0	-2646.55	0	nr	0
805	INC	nr	0	73.50	73	nr	0	nr	0	nr	50	80.29	80	-316.46	0	70.78	71	nr	75
806	INC	96.83	97	66.47	66	89.06	89	-1025.54	0	43.50	44	nr	75	-31.36	0	49.17	49	nr	0
807	INC	56.23	56	39.43	39	66.18	66	53.04	53	-1127.50	0	-237.27	0	-795.81	0	-1762.35	0	42.53	43
808	INC	nr	25	-38.32	0	nr	75	nr	50	-5888.96	0	nr	0	nr	0	-96.76	0	-29.87	0
809	INC	nr	50	nr	0	99.41	99	97.87	98	nr	0	nr	75	-354.42	0	91.87	92	nr	75
810	INC	nr	75	nr	0	95.89	96	86.54	87	nr	0	nr	0	nr	0	-543.78	0	nr	0
824	INC	-603.10	0	-134.37	0	-25.66	0	29.62	30	-965.34	0	nr	75	nr	0	-1074.27	0	nr	0
825	INC	nr	50	80.00	80	nr	0	nr	0	-966.47	0	nr	0	nr	0	nr	75	nr	50
902	INC	89.29	89	28.23	28	-148.65	0	-725.08	0	-451.17	0	nr	0	-354.81	0	-153.83	0	-3167.97	0
904	INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	-159.94	0	-19763.85	0	nr	0
905	INC	nr	0	nr	0	99.77	100	56.79	57	nr	0	nr	0	nr	0	-172.96	0	nr	25
906	INC	nr	75	77.68	78	nr	50	nr	75	81.73	82	nr	25	-891.12	0	-1559.85	0	nr	75
914	INC	nr	0	-257.14	0	nr	0	nr	50	nr	75	93.78	94	nr	75	-2677.78	0	95.44	95
915	INC	nr	75	73.45	73	95.11	95	88.18	88	nr	50	nr	0	6.98	7	84.49	84	52.94	53

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 3 with 0% Feed Reduction									Model Group No.	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	THC	CO	D/F		
200	CK	FF	50	0	12	79	0	0	0	na	25	5	Add WQ + CI + FF
201	CK	FF	0	0	0	77	0	0	0	na	75	18	Add WQ + FF
202	CK	FF	76	37	47	0	0	0	0	na	0	4	Add CI + FF
203	CK	ESP	16	0	89	0	47	0	0	na	96	16	Add WQ + CI + FF + PT
204	CK	ESP	71	50	87	0	0	0	0	na	65	5	Add WQ + CI + FF
205	CK	ESP	83	68	96	0	0	0	0	na	0	4	Add CI + FF
206	CK	ESP	69	37	78	0	25	0	0	na	83	16	Add WQ + CI + FF + PT
207	CK	MC/ESP	70	34	83	0	0	0	0	na	0	4	Add CI + FF
208	CK	ESP	76	0	30	0	0	0	0	na	0	4	Add CI + FF
228	CK	ESP	75	50	75	0	0	0	0	na	0	5	Add WQ + CI + FF
300	CK	ESP	75	79	97	9	0	0	0	na	98	5	Add WQ + CI + FF
301	CK	FF	96	62	0	0	0	0	0	na	75	4	Add CI + FF
302	CK	ESP	50	28	93	0	0	0	0	na	75	4	Add CI + FF
303	CK	QC/FF	83	35	0	0	0	0	0	na	0	4	Add CI + FF
304	CK	ESP	89	74	90	0	0	0	0	na	89	5	Add WQ + CI + FF
305	CK	ESP	53	79	94	0	42	0	0	na	99	16	Add WQ + CI + FF + PT
306	CK	MC/FF	100	0	0	0	0	0	0	na	0	5	Add WQ + CI + FF
308	CK	ESP	75	32	33	0	0	0	0	na	75	4	Add CI + FF
309	CK	MC/ESP	87	37	90	0	0	0	0	na	99	5	Add WQ + CI + FF
315	CK	FF	75	0	0	0	0	0	0	na	75	4	Add CI + FF
316	CK	FF	50	0	0	0	0	0	0	na	75	5	Add WQ + CI + FF
317	CK	FF	75	0	0	0	0	0	0	na	84	5	Add WQ + CI + FF
318	CK	ESP	75	0	54	0	0	0	0	na	75	4	Add CI + FF
319	CK	ESP	91	60	90	0	0	90	0	na	96	16	Add WQ + CI + FF + PT
320	CK	FF	75	0	0	0	0	52	0	na	0	8	Add CI + FF + PT
321	CK	ESP	50	86	0	0	0	61	0	na	0	8	Add CI + FF + PT
322	CK	ESP	0	0	60	0	0	0	0	na	93	20	Moderate DOM on ESP + Add WQ
323	CK	ESP	75	46	93	0	27	0	0	na	94	16	Add WQ + CI + FF + PT
335	CK	ESP	88	26	91	0	46	0	0	na	99	16	Add WQ + CI + FF + PT
401	CK	ESP	92	71	93	19	0	0	0	na	49	4	Add CI + FF
402	CK	ESP	84	72	98	25	0	71	0	na	0	8	Add CI + FF + PT
403	CK	ESP	99	57	0	0	0	0	0	na	81	5	Add WQ + CI + FF
404	CK	ESP	0	0	0	37	14	34	0	na	78	19	Add WQ + IWS
405	CK	ESP	75	32	94	72	0	0	0	na	50	4	Add CI + FF

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 3 with 0% Feed Reduction									Model Group No.	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	THC	CO	D/F		
223	LWAK	FF	84	0	0	0	97	0	0	0	0	4	Add CI + FF + ST
224	LWAK	FF	65	0	0	0	0	0	0	0	0	3	Add CI + FF
225	LWAK	FF	0	0	0	0	90	0	0	0	0	5	Add ST
226	LWAK	FF	50	0	0	0	75	0	0	0	0	4	Add CI + FF + ST
227	LWAK	FF	70	0	0	0	96	0	0	0	0	4	Add CI + FF + ST
307	LWAK	FF/VS	99	0	0	0	0	0	0	0	0	3	Add CI + FF
310	LWAK	FF	64	6	82	0	95	55	0	0	0	4	Add CI + FF + ST
311	LWAK	FF	67	0	87	0	95	86	0	0	0	4	Add CI + FF + ST
312	LWAK	FF	41	0	86	0	95	88	0	0	0	4	Add CI + FF + ST
313	LWAK	FF	0	0	87	73	96	0	0	0	0	6	Add IWS
314	LWAK	FF	80	42	96	61	93	48	0	0	0	4	Add CI + FF + ST
336	LWAK	FF	75	0	75	0	75	75	0	0	0	4	Add CI + FF + ST

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 3 with 0% Feed Reduction									Model Group No.	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	THC	CO	D/F		
209	INC	WHB/FF/VQ/PT/DM	0	0	0	0	0	95	25	63	75	35	Moderate DOM on comb. + Add WQ + PT
210	INC	FF/S	0	0	50	75	26	0	0	0	25	3	Moderate DOM on WS + Add RH + CI + FF
211	INC	SS/PT/VS	50	0	75	50	0	88	0	0	0	13	Add RH + CI + FF + PT
212	INC	FF/S	75	36	0	0	71	0	0	0	0	7	Moderate DOM on FF and WS
214	INC	IWS	97	35	92	47	0	25	0	0	0	29	Small DOM on IWS + Add RH + CI + FF
216	INC	HES/WS	76	50	92	39	0	0	0	0	0	9	Add RH + CI + FF
221	INC	PT	40	0	0	0	0	84	0	0	52	13	Add RH + CI + FF + PT
222	INC	WHB/SD/ESP/Q/PBS	50	0	0	0	0	0	0	0	83	8	Add CI
229	INC	WHB/ACS/HCS/CS	75	21	0	0	71	75	0	75	96	43	Add AB + RH + CB + IWS
324	INC	?	50	0	91	28	76	0	0	0	75	13	Add RH + CI + FF + PT
325	INC	SD/FF/WS/IWS	83	0	32	0	0	75	0	0	0	15	Moderate DOM on FF + Add CI + PT
327	INC	SD/FF/WS/ESP	99	0	0	0	0	0	0	0	99	8	Add CI
329	INC	PT/IWS	75	51	75	75	0	0	0	0	50	9	Add RH + CI + FF
330	INC	QT/WS/DM	4	64	82	0	51	0	0	0	99	3	Moderate DOM on WS + Add RH + CI + FF
331	INC	PT/IWS	89	0	98	0	75	75	0	0	0	13	Add RH + CI + FF + PT
332	INC	WS	25	87	0	0	35	95	0	80	75	39	Add AB + RH + CI + FF + PT
333	INC	SD/FF	0	0	0	50	57	0	0	0	0	14	Moderate DOM on SD and FF
334	INC	WS/ESP/PT	16	73	99	84	0	0	0	0	89	9	Add RH + CI + FF
337	INC	WHB/DA/DI/FF	97	0	27	64	0	80	0	0	0	15	Moderate DOM on FF + Add CI + PT
338	INC	QC/FF/SS/C/HES/DM	92	0	0	0	0	0	0	0	0	8	Add CI
339	INC	AT/PT/RJS/ESP	75	0	50	0	0	0	0	0	0	28	Moderate DOM on ESP + Add RH + CB
340	INC	WHB/ESP/WS	51	0	0	0	0	75	0	0	75	20	Add WQ + CI + PT
341	INC	DA/DI/FF/HEPA/CA	0	0	0	0	0	0	0	0	50	8	Add CI
342	INC	WHB/QC/S/VS/DM	25	0	0	0	0	75	0	0	0	40	Add RH + CB + PT
344	INC	QC/VS/PT/DM	50	0	0	0	0	0	0	0	25	9	Add RH + CI + FF
346	INC	C/QC/VS/PT/DM	0	0	33	0	0	75	0	0	0	16	Moderate DOM on VS + Add PT
347	INC	C/QC/VS/S/DM	3	0	0	0	0	0	0	0	0	9	Add RH + CI + FF
348	INC	QC/AS/IWS	75	0	0	0	0	0	0	0	75	32	Add RH + CB
349	INC	QC/FF/QC/PT	0	0	0	75	50	75	0	0	0	4	Add IWS
350	INC	WHB/HE/FF	0	0	75	50	0	0	0	0	0	6	Add FF
351	INC	GC/C/FF	50	0	0	0	0	75	0	0	50	34	Add CI + PT
353	INC	QC/VS/DM/ESP	0	31	40	33	0	0	0	0	0	17	Moderate DOM on ESP
354	INC	QC/AS/VS/DM/IWS	0	0	0	0	0	14	0	0	0	18	Small DOM on WS
356	INC	QC/AS/FN/DM	75	52	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
357	INC	QC/VS/PT/IWS	75	39	75	0	0	0	0	0	0	9	Add RH + CI + FF
358	INC	QC/VS/C/CT/S/DM	50	53	50	0	0	75	0	0	0	13	Add RH + CI + FF + PT
359	INC	WHB/FF/S	75	20	88	100	0	0	0	0	0	9	Add RH + CI + FF
400	INC	SD/FF	69	0	92	28	0	75	0	0	50	36	Add CI + IWS
500	INC	QC/VS/KOV/DM	0	0	0	0	0	89	0	0	0	2	Add PT
502	INC	WHB/QC/PBC/VS/ES	50	57	95	0	0	0	0	0	0	9	Add RH + CI + FF
503	INC	HTHE/LTHE/FF	68	43	92	81	0	75	0	50	75	38	Moderate DOM on comb. + Add CI + IWS
504	INC	VS/C	100	17	0	47	0	0	0	0	0	9	Add RH + CI + FF
600	INC	WHB/QC/PT/IWS	25	0	0	50	0	75	0	0	0	13	Add RH + CI + FF + PT

EER ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 3 with 0% Feed Reduction									Model Group No.	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	THC	CO	D/F		
700	INC	SD/RJS/VS/WS	0	65	100	89	0	0	0	0	0	6	Add FF
701	INC	VS/PT	75	65	0	75	0	0	0	0	50	9	Add RH + CI + FF
702	INC	QT/S/C	0	82	75	0	0	75	0	0	75	13	Add RH + CI + FF + PT
703	INC	WHB	75	0	0	0	92	0	0	0	0	20	Add WQ + CI + PT
704	INC	NONE	25	23	0	0	84	75	0	0	0	41	Add WQ + CI + FF + PT
705	INC	QT/VS/ESP/PT	61	44	65	33	0	0	0	0	75	9	Add RH + CI + FF
706	INC	QT/HS/C	75	65	0	0	0	75	0	0	0	13	Add RH + CI + FF + PT
707	INC	QT/WS	0	63	75	0	0	0	0	99	50	25	Add AB + RH + CI + FF
708	INC	WS/ESP	0	40	0	50	0	75	0	0	75	13	Add RH + CI + FF + PT
709	INC	NONE	50	63	0	0	0	0	0	0	0	10	Add WQ + CB + FF
710	INC	QT/OS/C/S	50	46	75	0	72	99	0	0	0	13	Add RH + CI + FF + PT
711	INC	C/VS/AS	25	48	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
712	INC	NONE	0	31	0	0	0	0	0	0	0	6	Add FF
713	INC	VS/PT	75	78	50	0	4	75	0	0	75	13	Add RH + CI + FF + PT
714	INC	WS	0	18	75	0	50	0	0	0	50	3	Moderate DOM on WS + Add RH + CI + FF
725	INC	WS/QT	0	25	0	0	0	98	0	0	4	13	Add RH + CI + FF + PT
726	INC	QC/CS/DM/VS	75	0	75	75	0	75	0	0	0	13	Add RH + CI + FF + PT
727	INC	GC/C/FF	0	82	75	50	0	0	89	95	0	21	Add AB + FF
728	INC	QT/PT/VS	0	65	0	0	0	75	0	0	75	37	Moderate DOM on VS + Add RH + CB + PT
784	INC	NONE	0	63	75	50	97	0	0	0	0	4	Add IWS
805	INC	QT/QS/VS/ES/PBS	0	73	0	0	50	80	0	71	75	24	Moderate DOM on comb. + Add RH + CI + PT + FF + RH
806	INC	C/VS	97	66	89	0	44	75	0	49	0	24	Moderate DOM on comb. + Add RH + CI + PT + FF + RH
807	INC	C/WHB/VQ/PT/HS/DM	56	39	66	53	0	0	0	0	43	9	Add RH + CI + FF
808	INC	QT/PBS/ESP	25	0	75	50	0	0	0	0	0	9	Add RH + CI + FF
809	INC	VS	50	0	99	98	0	75	0	92	75	39	Add AB + RH + CI + FF + PT
810	INC	Q/VS/PBS	75	0	96	87	0	0	0	0	0	9	Add RH + CI + FF
824	INC	QT/VS/PT/DM	0	0	0	30	0	75	0	0	0	16	Moderate DOM on VS + Add PT
825	INC	CCS/QC/ESP	50	80	0	0	0	0	0	75	50	25	Add AB + RH + CI + FF
902	INC	QT/VS/PT	89	28	0	0	0	0	0	0	0	9	Add RH + CI + FF
904	INC	?	0	0	75	0	0	0	0	0	0	6	Add FF
905	INC	QT/VS/AS/CS	0	0	100	57	0	0	0	0	25	9	Add RH + CI + FF
906	INC	QT/PT	75	78	50	75	82	25	0	0	75	42	Add RH + CB + IWS
914	INC	?	0	0	0	50	75	94	75	0	95	39	Add AB + RH + CI + FF + PT
915	INC	QC/VS/C	75	73	95	88	50	0	7	84	53	39	Add AB + RH + CI + FF + PT

TABLE C-13C. CHARACTERIZATION OF ATF MODEL PLANTS, OPTION 3, 0% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
CK	Group 4	Add CI + FF	1	207	S	Keystone	MC/ESP	90,681	147,000	
			1	301	S	Essroc	FF	185,409	147,000	
			2	302 *	S	Lafarge	ESP	130,576	147,000	
			3	308	S	North Texas	ESP	162,599	147,000	
			1	315 *	S	Southdown	FF	102,042	147,000	
			4	318 *	S	Texas Industries	ESP	152,675	147,000	
			1	401	S	Ash Grove	ESP	172,481	147,000	
			1	405 *	S	Ash Grove	ESP	194,905	147,000	
			1	202 *	L	Heartland	FF	221,421	370,000	
			1	205	L	Holnam	ESP	253,556	370,000	
			1	208	L	Keystone	ESP	307,644	370,000	
			1	303	L	Lone Star	MC/FF	408,681	370,000	
	Group 5	Add CI + FF + WQ	2	200 *	S	Giant	FF	123,584	147,000	
			1	228 *	S	Ash Grove	ESP	148,537	147,000	
			2	300	S	Essroc	ESP	164,692	147,000	
			1	403	S	Ash Grove	ESP	184,877	147,000	
			1	204	L	Holnam	ESP	693,613	370,000	
			1	304	L	Lone Star	ESP	300,367	370,000	
			1	306	L	National	MC/FF	280,868	370,000	
			1	309	L	River Cement	MC/ESP	665,839	370,000	
			1	316 *	L	Southdown	FF	nr	370,000	
			1	317	L	Southdown	FF	422,190	370,000	
	Group 8	Add CI + FF + PT	1	321 *	S	Lafarge	ESP	59,542	147,000	85
			1	402	S	Ash Grove	ESP	187,605	147,000	85
			3	320 *	L	Lafarge	FF	nr	370,000	85
	Group 16	Add CI + FF + PT + WQ	2	305	S	Medusa	ESP	196,903	147,000	85
			1	323	S	Lafarge	FF	185,409	147,000	85
			1	335	S	Medusa	ESP	100,378	147,000	85
			1	203	L	Holnam	ESP	291,645	370,000	85
			1	206	L	Holnam	ESP	348,510	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
	Group 18	Add FF + WQ	2	201 *	S	Giant	FF	137,945	147,000	
	Group 19	Add IWS + WQ	1	404	L	Ash Grove	ESP	265,721	370,000	85
	Group 20	Moderate DOM on ESP + Add WQ	1	322	S	Lafarge	ESP	112,269	147,000	
LWAK	Group 3	Add CI + FF	1	224	M	Solite	FF	39,049	40,500	
			2	307	M	Norlite	FF/VS	49,050	40,500	
	Group 4	Add CI + FF + ST	1	223	M (hi HCl)	Solite	FF	29,092	40,500	1,570
			1	227	M (hi HCl)	Solite	FF	38,796	40,500	1,570
			1	311	M (hi HCl)	Solite	FF	51,627	40,500	1,570
			1	312	M (hi HCl)	Solite	FF	47,698	40,500	1,570
			1	226 *	M (lo HCl)	Solite	FF	nr	40,500	875
			1	310	M (lo HCl)	Solite	FF	47,770	40,500	875
			1	314	M (lo HCl)	Solite	FF	36,793	40,500	875
			1	336 *	M (lo HCl)	Solite	FF	30,336	40,500	875
	Group 5	Add ST	1	225	M (lo HCl)	Solite	FF	38,270	40,500	875

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
	Group 6	Add IWS	1	313	M (hi HCl)	Solite	FF	36,793	40,500	1,570
INC	Group 2	Add PT	1	500	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92
	Group 3	Moderate DOM on WS + Add CI + FF + RH	1	330	M	General Electric	QT/WS/DM	10,345	22,100	
			2	714 *	M	Olin Chemical	WS	19,185	22,100	
			1	210 *	L	LWD	FF/S	96,107	60,800	
	Group 4	Add IWS	2	349 *	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
			1	784	S	Cook Composites	NONE	nr	3,900	92
	Group 6	Add FF	1	904 *	S	First Chemical	?	5,950	3,900	
			1	350 *	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
			1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	Moderate DOM on FF and WS	1	212 *	L	LWD	FF/S	44,610	60,800	
	Group 8	Add CI	1	341 *	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	222	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
			1	327	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
			1	338	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add CI + FF + RH	1	502 *	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	
			1	905 *	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	344 *	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
			1	357 *	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	359 *	M	Atochem	WHB/FF/S	13,802	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	701 *	M	Eli Lilly	VS/PT	9,208	22,100	
			1	705	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	
			1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
			1	808 *	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
			1	810 *	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	216	L	Rollins	HES/WS	40,002	60,800	
			1	329 *	L	Dupont	PT/IWS	53,489	60,800	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	
	Group 10	Add CB + FF + WQ	1	709 *	S	Cargill Chemical	NONE	3,123	3,900	

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
	Group 13	Add CI + FF + PT + RH	1	356 *	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	708 *	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
			1	713 *	S	Pfizer	VS/PT	2,625	3,900	92
			1	725	S	Zeneca	WS/QT	1,489	3,900	92
			1	726 *	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	324 *	M	Allied	?	12,120	22,100	92
			1	358 *	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	702 *	M	Dupont	QT/S/C	nr	22,100	92
			1	706 *	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
			1	710 *	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	211 *	L	LWD	SS/PT/VS	43,596	60,800	92
			1	221	L	Rollins	PT	51,114	60,800	92
			1	331 *	L	Ross	PT/IWS	44,379	60,800	92
			1	600 *	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
			1	711 *	L	Chevron Chemical	C/VS/AS	52,907	60,800	92
	Group 14	Moderate DOM on SD and FF	1	333 *	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	Moderate DOM on FF + Add CI + PT	1	325 *	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92
			2	337	M	Olnin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 16	Moderate DOM on VS + Add PT	1	824 *	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92
			1	346 *	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92
	Group 17	Moderate DOM on ESP	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
	Group 18	Small DOM on WS	1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
	Group 20	Add CB + PT + WQ	1	703 *	S	Aristech	WHB	1,873	3,900	92
			1	340 *	M	Miles	WHB/ESP/WS	16,003	22,100	92
	Group 21	Add AB + FF	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
	Group 24	Moderate DOM on comb. + Add CI + PT + FF + RH	1	805 *	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	92
			1	806	M	Amoco Oil	C/VS	20,641	22,100	92
	Group 25	Add AB + CI + FF + RH	1	825 *	M	General Electric	CCS/QC/ESP	21,363	22,100	
			1	707 *	L	Dupont	QT/WS	58,120	60,800	
	Group 28	Moderate DOM on ESP + Add CB + RH	1	339 *	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
	Group 29	Small DOM on IWS + Add CI + FF + RH	1	214	M	Rollins	IWS	34,655	22,100	
	Group 32	Add CB + RH	1	348 *	S	Occidental Chemical	QC/AS/IWS	nr	3,900	
	Group 34	Add CI + PT	1	351 *	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
	Group 35	Moderate DOM on comb. + Add PT + WQ	1	209 *	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 36	Add CI + IWS	1	400 *	L	Marine Shale	SD/FF	179,333	60,800	92
	Group 37	Moderate DOM on VS + Add CB + PT + RH	1	728 *	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
	Group 38	Moderate DOM on comb. + Add CI + IWS	1	503 *	S	Lake City Army Ammo Plar	HTHE/LTHE/FF	4,747	3,900	92
	Group 39	Add AB + CI + FF + PT + RH	1	332 *	M	Thermalkem	WS	20,208	22,100	92
			1	914 *	M	Vertac Superfund	?	25,849	22,100	92
			1	915 *	M	Eastman Kodak	QC/VS/C	nr	22,100	
			1	809 *	L	Tennessee Eastman	VS	40,524	60,800	92

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
	Group 40	Add CB + PT + RH	1	342 *	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92
	Group 41	Add CI + FF + PT + WQ	1	704 *	S	Ashland	NONE	5,011	3,900	92
	Group 42	Add CB + IWS + RH	1	906 *	S	Monsanto	QT/PT	2,738	3,900	92
	Group 43	Add AB + CB + IWS + RH	1	229 *	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribution of reported values from other facilities

** Reported Ratio is equal to the number of total units located at a site divided by the number of units for which information was reported.

Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units.

nr = not reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 4	S	Add CI,FF	14	$2,611K	$718K	$1,022K
		L		4	$5,658K	$1,490K	$2,139K
	Group 5	S	Add Q,CI,FF	6	$3,144K	$806K	$1,180K
		L		6	$6,570K	$1,645K	$2,414K
	Group 8	S	Add CI,FF,PT	2	$3,512K	$1,048K	$1,498K
		L		3	$7,593K	$2,174K	$3,138K
	Group 16	S	Add Q, CI, FF, PT	4	$4,045K	$1,136K	$1,656K
		L		3	$8,505K	$2,329K	$3,413K
	Group 18	S	Add Q, FF	2	$2,673K	$443K	$754K
	Group 19	L	Add Q, IWS	1	$5,322K	$902K	$1,740K
	Group 20	S	Moderate DOM on existing ESP, Add Q	1	$2,290K	$237K	$538K
LWAK	Group 3	M	Add CI, FF	3	$1,074K	$350K	$480K
	Group 4	M (hi HCl)	Add CI, FF, ST	4	$2,302K	$680K	$1,009K
		M (lo HCl)		4	$2,302K	$611K	$941K
	Group 5	M (lo HCl)	Add ST	1	$1,229K	$261K	$461K
	Group 6	M (hi HCl)	Add IWS	1	$1,016K	$682K	$847K
Incinerators	Group 2	L	Add PT	1	$445K	$195K	$267K
	Group 3	M	DOM WS mod, Add RH,CI/CB,FF	3	$1,004K	$405K	$541K
		L		1	$1,876K	$712K	$968K
	Group 4	S	Add IWS	3	$215K	$97K	$132K
	Group 6	S	Add FF	1	$82K	$89K	$98K
		M		2	$295K	$121K	$154K
		L		1	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
	Group 8	M	Add CI/CB	1	$397K	$147K	$199K
		L		3	$425K	$224K	$280K
	Group 9	S	Add RH, CI/CB, FF	2	$575K	$241K	$315K
		M		11	$932K	$391K	$508K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators		L		3	$1,681K	$672K	$876K
(cont.)	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
	Group 13	S	Add PT, RH, CI/CB, FF	5	$632K	$331K	$414K
		M		5	$1,137K	$515K	$665K
		L		5	$2,126K	$866K	$1,143K
	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	3	$620K	$278K	$364K
	Group 16	S	DOM VS mod, Add PT	1	$68K	$96K	$109K
		M		1	$250K	$159K	$205K
	Group 17	M	DOM ESP mod	1	$535K	$50K	$120K
	Group 18	M	DOM WS small	1	$40K	$13K	$20K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K
		M		1	$879K	$319K	$441K
	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
	Group 24	M	DOM combustor, Add PT,RH,CI/CB,FF	2	$1,291K	$515K	$690K
	Group 25	M	Add AB,RH,CI/CB,FF	1	$1,349K	$924K	$1,096K
		L		1	$2,223K	$1,947K	$2,223K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$178K	$267K
	Group 29	M	DOM IWS small, Add RH,CI/CB,FF	1	$972K	$403K	$528K
	Group 32	S	Add RH, CB/CI	1	$493K	$152K	$216K
	Group 34	S	Add CI/CB, PT	1	$398K	$181K	$235K
	Group 35	M	Moderate DOM on Combustor, Add Q, PT	1	$637K	$172K	$267K
	Group 36	L	Add CI/CB, IWS	1	$1,755K	$452K	$725K
	Group 37	S	Moderate DOM on existng VS, Add RH, CI/CB, PT	1	$561K	$248K	$326K
	Group 38	S	Moderate DOM on Combustor, Add CI/CB, IWS	1	$672K	$188K	$287K
	Group 39	M	Add RH, CI/CB, FF, PT, AB	3	$1,554K	$1,048K	$1,253K
		L		1	$2,669K	$2,142K	$2,490K
	Group 40	S	Add RH, CI/CB, PT	1	$550K	$242K	$316K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
Incinerators (cont.)	Group 41	S	Add Q, CI/CB, FF, PT	1	$700K	$311K	$403K
	Group 42	S	Add RH, CI/CB, IWS	1	$708K	$249K	$348K
	Group 43	S	Add RH, CI/CB, IWS, AB	1	$973K	$441K	$576K

TABLE C-14a. REQUIRED REDUCTION TO MEET OPTION 3 WITH 25% FEED REDUCTION

Type	Hg Req % Reduct.	Hg Adj. % Reduct.	PM Req % Reduct.	PM Adj % Reduct.	SVM Req % Reduct.	SVM Adj % Reduct.	LVM Req % Reduct.	LVM Adj % Reduct.	HCl Req % Reduct.	HCl Adj % Reduct.	Cl2 Req % Reduct.	Cl2 Adj. % Reduct.	HC Req % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj % Reduct.	TEQ Req. % Reduct.
Levels	5.00		0.015		60.00		80.00		60.00		1.00		20.00		na		0.20
CK	33.76	34	-9.24	0	-11.10	0	75.85	76	365.89	0	-12896.09	0	nr	0	na	na	nr
CK	-151.33	0	-15.23	0	-50.56	0	71.25	71	298.50	0	24771.29	0	nr	0	na	na	nr
CK	67.57	68	37.31	37	33.56	34	-215.09	0	-174.52	0	-385.88	0	nr	0	na	na	nr
CK	11.62	0	-9.76	0	86.27	86	-236.48	0	30.76	31	-70.10	0	-5.26	0	na	na	96.43
CK	61.19	62	50.13	50	84.04	84	1362.77	0	170000.40	0	12137.22	0	nr	0	na	na	64.91
CK	77.43	77	67.61	68	94.73	95	-366.92	0	-397.63	0	-532.00	0	10.95	0	na	na	-103.0
CK	59.01	59	37.46	37	72.13	72	984.03	0	3.33	5	3047.41	0	65.62	0	na	na	82.61
CK	60.11	60	34.01	34	79.05	79	381.13	0	1689.68	0	341.44	0	nr	0	na	na	1150.0
CK	67.65	68	-4.38	0	12.33	12	-677.54	0	1361.54	0	435.75	0	nr	0	na	na	4238.3
CK	na	75	nr	50	nr	75	na	0	nr	0	nr	0	18.34	0	na	na	2.44
CK	nr	75	79.02	79	96.03	96	-6.02	0	-133.28	0	-342.19	0	-4.58	0	na	na	98.33
CK	94.24	94	61.90	62	-730.24	0	-453.52	0	35034.62	0	630.73	0	65.70	0	na	na	nr
CK	nr	0	27.68	28	91.40	91	-355.66	0	-708.48	0	-176.54	0	nr	0	na	na	nr
CK	77.10	77	34.78	35	-199.20	0	-682.96	0	-1955.87	0	-1210.34	0	66.67	0	na	na	nr
CK	85.26	85	74.45	74	87.73	88	130.78	0	-22535.67	0	-30004.93	0	nr	0	na	na	88.89
CK	37.94	38	79.40	79	92.98	93	-212.74	0	23.45	25	-430.90	0	10.42	0	na	na	99.65
CK	99.81	100	0.47	0	-367.57	0	-603.90	0	-3633.80	0	669.23	0	nr	0	na	na	266.3
CK	nr	75	31.82	32	15.76	16	-1139.78	0	-1621.71	0	-68.87	0	nr	0	na	na	nr
CK	82.73	83	37.11	37	87.03	87	-1843.95	0	-64.30	0	-1060.80	0	-37.45	0	na	na	99.62
CK	nr	75	-1120.07	0	-413.88	0	-730.10	0	3762.94	0	-5273.91	0	nr	0	na	na	nr
CK	nr	50	-27.22	0	-1248.79	0	-1238.86	0	-196.56	0	-43.33	0	-244.15	0	na	na	nr
CK	nr	75	565.43	0	-162.63	0	296.42	0	-1653.41	0	-2974.16	0	64.17	0	na	na	83.87
CK	nr	75	-62.51	0	41.59	42	801.89	0	-63.11	0	-1460.28	0	207.69	0	na	na	nr
CK	87.95	88	60.00	60	87.88	88	-46.20	0	-30.38	0	87.33	87	68.94	0	na	na	96.42
CK	nr	50	-399.99	0	-3311.73	0	-2000.16	0	-2653.29	0	37.65	38	80.10	0	na	na	-136.9
CK	nr	50	85.71	86	-1018.05	0	-1518.62	0	-1645.51	0	49.40	49	nr	0	na	na	nr
CK	nr	0	-15.58	0	49.25	49	-258.34	0	-260.41	0	534.67	0	170.27	0	na	na	92.54
CK	nr	50	46.43	46	91.25	91	-15.59	0	6.12	6	1427.98	0	90.48	0	na	na	94.44
CK	83.45	83	25.96	26	89.12	89	-767.16	0	29.91	30	-224.34	0	-17.55	0	na	na	99.20
CK	89.00	89	71.20	71	91.82	92	6.01	6	-261.48	0	-128.90	0	61.33	0	na	na	48.72
CK	79.26	79	71.96	72	97.77	98	17.79	13	-451.10	0	62.93	63	33.05	0	na	na	nr
CK	99.23	99	56.69	57	-152.84	0	-182.29	0	-13145.69	0	5893.12	0	-13.19	0	na	na	81.31
CK	-56.76	0	-214.09	0	-36.09	0	27.44	27	-10.95	0	14.22	14	-25.96	0	na	na	37.88
CK	66.98	67	31.72	32	92.04	92	67.60	68	-3224.52	0	-253.98	0	6.65	0	na	na	na

TABLE C-14a. REQUIRED REDUCTION TO MEET OPTION 3 WITH 25% FEED REDUCTION

Type	Hg Req % Reduct.	Hg Adj % Reduct	PM Req. % Reduct.	PM Adj % Reduct.	SVM Req % Reduct	SVM Adj % Reduct	LVM Req % Reduct.	LVM Adj % Reduct	HCl Req % Reduct.	HCl Adj % Reduct	Cl2 Req % Reduct.	Cl2 Adj % Reduct	HC Req. % Reduct	HC Adj % Reduct.	CO Req % Reduct	CO Adj % Reduct	TEQ Req % Reduct
Levels	5.00		0.015		60.00		80.00		60.00		1.00		20.00		100.00		0.20
LWAK	82.09	82	-479.94	0	-1304.10	0	-124.69	0	96.51	96	-112.65	0	nr	0	nr	0	nr
LWAK	61.23	61	-427.20	0	1893.38	0	-331.05	0	-8203.92	0	-207.91	0	nr	0	nr	0	nr
LWAK	-18.64	0	4045.81	0	8044.14	0	692.88	0	86.75	87	-850.86	0	nr	0	nr	0	nr
LWAK	nr	50	1385.13	0	nr	0	nr	0	nr	75	nr	0	nr	0	nr	0	nr
LWAK	66.76	67	-926.73	0	287.83	0	-297.03	0	94.74	95	-209.67	0	-60.00	0	92.51	0	nr
LWAK	98.87	98	-38.09	0	-1282.19	0	-25.31	0	-263.99	0	-126.31	0	nr	0	-120.61	0	nr
LWAK	99.85	60	6.25	6	76.47	76	-33.99	0	93.31	93	39.55	40	nr	0	nr	0	nr
LWAK	63.26	63	150.00	0	82.22	82	-121.23	0	93.47	93	81.94	82	nr	0	nr	0	nr
LWAK	34.12	34	-114.28	0	81.33	81	-126.36	0	93.81	94	83.59	84	nr	0	nr	0	nr
LWAK	-1397.52	0	150.00	0	82.36	82	72.82	73	94.78	95	-115.46	0	nr	0	nr	0	nr
LWAK	77.97	78	42.18	42	95.20	95	60.57	61	90.26	90	31.78	31	nr	0	nr	0	nr
LWAK	nr	75	-84.34	0	nr	75	nr	0	nr	75	nr	0	nr	0	nr	0	498.1

TABLE C-14a. REQUIRED REDUCTION TO MEET OPTION 3 WITH 25% FEED REDUCTION

Type	Hg Req. % Reduct.	Hg Adj % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.
evels	5.00		0.015		60.00		80.00		25.00		1.00		20.00		100.00		0.20
INC	-108.04	0	-223.01	0	-901.19	0	-254.98	0	-213.86	0	93.77	94	nr	25	63.16	63	nr
INC	nr	75	-192.21	0	nr	50	nr	75	0.74	1	-323.19	0	-415.91	0	-27385.21	0	nr
INC	nr	25	-44.23	0	nr	75	nr	50	-43.80	0	83.61	84	-700.67	0	-2002.04	0	nr
INC	nr	0	36.13	36	nr	0	nr	0	61.68	62	-689.04	0	-478.16	0	-1934.62	0	nr
INC	96.64	97	35.45	35	89.14	89	47.30	47	-2225.59	0	nr	25	-1521.60	0	-561.99	0	-237.84
INC	67.77	68	50.15	50	89.87	90	38.76	39	-254.00	0	nr	0	nr	0	-869.84	0	nr
INC	20.32	20	-5.42	0	-95.30	0	-31.44	0	-172.95	0	78.17	78	-464.12	0	-552.36	0	52.38
INC	nr	50	-597.50	0	-2747.28	0	nr	0	-2256.19	0	-256.01	0	-6003.91	0	-167.49	0	82.76
INC	nr	75	21.26	21	-76.35	0	-33.69	0	61.77	62	nr	75	nr	0	nr	75	96.38
INC	nr	50	-38.89	0	87.59	88	27.68	28	67.66	68	nr	0	nr	0	-219.83	0	nr
INC	76.94	77	-361.53	0	9.60	10	-152.27	0	-523.38	0	nr	75	-2263.92	0	-867.74	0	nr
INC	99.23	99	-1094.70	0	-289.48	0	-200.94	0	-927.03	0	-638.11	0	-284.23	0	-1096.05	0	98.75
INC	nr	75	50.74	51	nr	75	nr	75	-374.75	0	-274.78	0	-708.58	0	-935.58	0	nr
INC	-27.88	0	64.37	64	76.47	76	-49.39	0	34.29	34	nr	0	nr	0	nr	0	99.25
INC	85.31	85	-87.50	0	97.84	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-191.91
INC	nr	25	87.30	87	nr	0	nr	0	13.13	13	93.04	93	nr	0	80.00	80	nr
INC	nr	0	-1053.82	0	nr	0	nr	50	42.40	42	-135.54	0	nr	0	-2136.89	0	nr
INC	-11.44	0	72.94	73	98.24	98	84.07	84	-109.38	0	nr	0	-885.83	0	-34.96	0	89.42
INC	95.93	96	-6247.01	0	2.90	3	64.19	64	-9471.38	0	73.40	73	-514.48	0	-13061.51	0	nr
INC	88.99	89	-1099.99	0	-169.74	0	-5.63	0	-22288.80	0	-2617.49	0	-994.39	0	-4878.93	0	nr
INC	nr	75	-414.21	0	nr	25	nr	0	-91.67	0	-9966.49	0	-1513.97	0	nr	0	nr
INC	35.30	35	-130.06	0	-817.42	0	-597.04	0	-99.81	0	nr	50	-1138.46	0	-238.04	0	nr
INC	-614.53	0	-916.94	0	-478.44	0	-944.00	0	-2160.14	0	nr	0	nr	0	-73.46	0	nr
INC	0.56	1	-336.97	0	-313.76	0	-3408.50	0	-13877.71	0	nr	75	nr	0	nr	0	nr
INC	nr	50	-826.62	0	-395.71	0	-16.98	0	-3509.67	0	nr	0	-1015.00	0	-519.62	0	nr
INC	-2297.40	0	-1067.30	0	11.30	11	-553.14	0	-4344.22	0	nr	75	nr	0	-255.68	0	-63.93
INC	-29.07	0	-115.39	0	-658.24	0	-443.92	0	-2138.44	0	nr	0	nr	0	nr	0	-936.21
INC	nr	75	-1399.99	0	-824.71	0	-2435.15	0	-59824.89	0	-167.39	0	nr	0	-1104.17	0	nr
INC	nr	0	-690.51	0	-114.45	0	nr	75	nr	50	nr	75	nr	0	-1043.22	0	nr
INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-2870.43	0	nr
INC	nr	50	-68.16	0	nr	0	-645.40	0	nr	0	nr	50	nr	0	-35.23	0	nr
INC	-65.16	0	30.81	31	20.30	20	32.99	33	nr	0	nr	0	nr	0	-529.10	0	-57.48
INC	-697.91	0	-141.54	0	-7272.96	0	-684.78	0	-5532.48	0	-14.29	0	nr	0	-3281.50	0	-2624.30
INC	nr	75	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	0	-2601.64	0	nr
INC	nr	75	38.53	39	nr	75	nr	0	-390.75	0	nr	0	nr	0	-808.60	0	nr
INC	nr	50	52.79	53	nr	50	nr	0	-1005.24	0	nr	75	nr	0	-6563.08	0	nr
INC	nr	25	19.91	20	84.57	85	99.85	100	-315.01	0	nr	0	nr	0	-0.58	0	nr
INC	58.48	58	-152.37	0	89.32	89	27.87	28	nr	0	nr	75	nr	0	nr	0	nr

TABLE C-14a. REQUIRED REDUCTION TO MEET OPTION 3 WITH 25% FEBD REDUCTION

Type	Hg Req. % Reduct.	Hg Adj. % Reduct.	PM Req. % Reduct.	PM Adj. % Reduct.	SVM Req. % Reduct.	SVM Adj. % Reduct.	LVM Req. % Reduct.	LVM Adj. % Reduct.	HCl Req. % Reduct.	HCl Adj. % Reduct.	Cl2 Req. % Reduct.	Cl2 Adj. % Reduct.	HC Req. % Reduct.	HC Adj. % Reduct.	CO Req. % Reduct.	CO Adj. % Reduct.	TEQ Req. % Reduct.
INC	-123.65	0	-767.27	0	-2717.13	0	-2249.06	0	-140.75	0	83.27	83	nr	0	nr	0	-430.50
INC	nr	50	57.14	57	93.67	94	-1.12	0	-59.17	0	nr	0	nr	0	nr	0	-796.86
INC	57.02	57	43.40	43	89.61	90	81.34	81	nr	0	nr	75	nr	0	nr	50	nr
INC	99.64	100	16.67	17	-106.12	0	46.56	47	-628.63	0	nr	0	nr	0	nr	0	nr
INC	nr	0	-100.00	0	nr	0	nr	50	-2746.99	0	nr	75	nr	0	nr	0	nr
INC	-48.90	0	65.40	65	99.69	100	88.65	89	-152.96	0	-1002.22	0	nr	0	nr	0	nr
INC	nr	75	65.22	65	nr	0	nr	75	-209.72	0	nr	0	-2497.40	0	nr	0	nr
INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr
INC	nr	75	-400.00	0	nr	0	nr	0	89.70	90	nr	0	-5235.72	0	-8580.92	0	nr
INC	nr	0	23.08	23	nr	0	nr	0	78.37	78	nr	50	nr	0	-2184.48	0	nr
INC	47.99	48	43.74	44	52.88	53	32.84	33	-238.87	0	nr	0	nr	0	-3364.34	0	nr
INC	nr	75	64.87	65	nr	0	nr	0	-6211.60	0	nr	75	-285.81	0	-151.49	0	-895.02
INC	nr	0	62.86	63	nr	75	nr	0	-559.36	0	nr	0	nr	0	98.57	99	nr
INC	nr	0	39.80	40	nr	0	nr	50	-4479.16	0	nr	75	nr	0	-1042.43	0	nr
INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-1464.15	0	-1188.66	0	nr
INC	nr	50	45.78	46	nr	75	nr	0	63.03	63	99.10	99	-57.89	0	-240.91	0	nr
INC	nr	0	47.67	48	nr	0	nr	0	-3874.02	0	nr	75	nr	0	-591.02	0	nr
INC	nr	0	30.97	31	-3458.83	0	-241.79	0	nr	0	nr.	0	nr	0	nr	0	nr
INC	nr	75	77.78	78	nr	50	nr	0	-27.56	0	nr	75	nr	0	-4897.31	0	nr
INC	nr	0	18.48	18	nr	75	nr	0	33.34	33	nr	0	nr	0	-490.50	0	nr
INC	-313.63	0	24.62	25	-103.28	0	-69.64	0	-515.50	0	97.71	98	-1042.86	0	-2320.90	0	3.85
INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	-36.95	0	-394.32	0	nr
INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	89.16	89	95.49	95	nr
INC	nr	0	65.04	65	nr	0	nr	0	-8462.93	0	nr	75	nr	0	nr	0	nr
INC	nr	0	63.41	63	nr	75	nr	50	96.31	96	nr	0	nr	0	-2646.55	0	nr
INC	nr	0	73.50	73	nr	0	nr	0	nr	50	73.72	74	-316.46	0	70.78	71	nr
INC	95.77	96	66.47	66	85.41	85	-1025.54	0	24.67	25	nr	75	-31.36	0	49.17	49	nr
INC	41.64	42	39.43	39	54.90	55	53.03	53	-1536.67	0	-349.69	0	-795.81	0	-1762.35	0	42.53
INC	nr	0	-38.32	0	nr	75	nr	50	-7885.28	0	nr	0	nr	0	-96.76	0	-29.87
INC	nr	50	nr	0	99.21	99	97.87	98	nr	0	nr	75	-354.42	0	91.87	92	nr
INC	nr	75	nr	0	94.52	95	86.54	87	nr	0	nr	0	nr	0	-543.78	0	nr
INC	-837.46	0	-134.37	0	-67.55	0	29.62	30	-1320.46	0	nr	75	nr	0	-1074.27	0	nr
INC	nr	50	80.00	80	nr	0	nr	0	-1321.95	0	nr	0	nr	0	nr	75	nr
INC	85.72	86	28.23	28	-231.54	0	-723.08	0	-634.89	0	nr	0	-354.81	0	-153.83	0	-3167.97
INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	-159.94	0	-19763.85	0	nr
INC	nr	0	nr	0	99.70	100	56.79	57	nr	0	nr	0	nr	0	-172.96	0	nr
INC	nr	75	77.68	78	nr	25	nr	75	75.64	76	nr	50	-891.12	0	-1559.85	0	nr
INC	nr	0	-257.14	0	nr	0	nr	50	nr	25	91.71	92	nr	75	-2677.78	0	95.44
INC	nr	50	73.45	73	93.48	93	88.18	88	nr	0	nr	0	6.98	7	84.49	84	52.94

TABLE C-14b. MODEL GROUP SELECTION FOR OPTION 3 WITH 25% FEED REDUCTION

ER	Type	Current APCS	% Emission Reduction Required to Meet Option 3 with 25% Feed Reduction									Model	Required Add-on Flue Gas Control
No.			Hg	PM	SVM	LVM	HCl	Cl2	THC	CO	DiF	Group No.	
00	CK	FP	50	0	12	79	0	0	0	na	25	5	Add WQ + CI + FP
01	CK	FF	0	0	0	77	0	0	0	na	75	21	Moderate DOM on FF + WQ
02	CK	FF	76	0	47	0	0	0	0	na	0	4	Add CI + FF
03	CK	ESP	16	0	89	0	47	0	0	na	96	16	Add WQ + CI + FP + PT
04	CK	ESP	71	0	87	0	0	0	0	na	65	5	Add WQ + CI + FP
05	CK	ESP	83	35	96	0	0	0	0	na	0	4	Add CI + FP
06	CK	ESP	69	0	78	0	25	0	0	na	83	16	Add WQ + CI + FP + PT
07	CK	MC/ESP	70	0	83	0	0	0	0	na	0	4	Add CI + FF
08	CK	ESP	76	0	30	0	0	0	0	na	0	4	Add CI + FF
28	CK	ESP	0	0	75	0	0	0	0	na	0	3	Add FF
00	CK	ESP	75	58	97	9	0	0	0	na	98	5	Add WQ + CI + FF
01	CK	FP	96	24	0	0	0	0	0	na	75	4	Add CI + FF
02	CK	ESP	50	0	95	0	0	0	0	na	75	4	Add CI + FF
03	CK	QC/FP	83	0	0	0	0	0	0	na	0	4	Add CI + FP
04	CK	ESP	89	49	90	0	0	0	0	na	89	5	Add WQ + CI + FF
05	CK	ESP	53	59	94	0	42	0	0	na	99	16	Add WQ + CI + FF + PT
06	CK	MC/FF	100	0	0	0	0	0	0	na	0	5	Add WQ + CI + FF
08	CK	ESP	75	0	33	0	0	0	0	na	75	4	Add CI + FP
09	CK	MC/ESP	87	0	90	0	0	0	0	na	99	5	Add WQ + CI + FF
15	CK	FF	75	0	0	0	0	0	0	na	75	4	Add CI + FF
16	CK	FF	50	0	0	0	0	0	0	na	75	5	Add WQ + CI + FF
17	CK	FF	75	0	0	0	0	0	0	na	84	5	Add WQ + CI + FF
18	CK	ESP	75	0	54	0	0	0	0	na	75	4	Add CI + FP
19	CK	ESP	91	20	90	0	0	90	0	na	96	16	Add WQ + CI + FP + PT
20	CK	FF	75	0	0	0	0	52	0	na	0	8	Add CI + FP + PT
21	CK	ESP	50	71	0	0	0	61	0	na	0	8	Add CI + FF + PT
22	CK	ESP	0	0	60	0	0	0	0	na	93	20	Moderate DOM on ESP + Add WQ
23	CK	ESP	75	0	93	0	27	0	0	na	94	16	Add WQ + CI + FF + PT
35	CK	ESP	88	0	91	0	46	0	0	na	99	16	Add WQ + CI + FF + PT
01	CK	ESP	92	42	93	19	0	0	0	na	49	4	Add CI + FF
02	CK	ESP	84	44	98	25	0	71	0	na	0	8	Add CI + FF + PT
03	CK	ESP	99	13	0	0	0	0	0	na	81	5	Add WQ + CI + FF
04	CK	ESP	0	0	0	37	14	34	0	na	78	19	Add WQ + IWS
05	CK	ESP	75	0	94	72	0	0	0	na	50	4	Add CI + FF

TABLE C-14b. MODEL GROUP SELECTION FOR OPTION 3 WITH 25% FEED REDUCTION

R No.	Type	Current APCS	% Emission Reduction Required to Meet Option 3 with 25% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	THC	CO	D/F		
3	LWAK	FF	84	0	0	0	40	0	0	0	0	4	Add CI + FF + ST
4	LWAK	FF	65	0	0	0	0	0	0	0	0	3	Add CI + FF
5	LWAK	FP	0	0	0	0	0	0	0	0	0	5	Add ST
6	LWAK	FF	50	0	0	0	0	0	0	0	0	4	Add CI + FF + ST
7	LWAK	FP	70	0	0	0	14	0	0	0	0	4	Add CI + FF + ST
7	LWAK	FF/VS	99	0	0	0	0	0	0	0	0	3	Add CI + FP
0	LWAK	FF	64	6	82	0	0	0	0	0	0	4	Add CI + FF + ST
1	LWAK	FP	67	0	87	0	0	66	0	0	0	4	Add CI + FF + ST
2	LWAK	FF	41	0	86	0	0	69	0	0	0	4	Add CI + FF + ST
3	LWAK	FF	0	0	87	73	15	0	0	0	0	6	Add IWS
4	LWAK	FP	80	42	96	61	0	0	0	0	0	4	Add CI + FF + ST
6	LWAK	FF	75	0	75	0	0	0	0	0	0	4	Add CI + FF + ST

TABLE C-14b. MODEL GROUP SELECTION FOR OPTION 3 WITH 25% FEED REDUCTION

R	Type	Current APCS	% Emission Reduction Required to Meet Option 3 with 25% Feed Reduction									Model	Required Add-on Flue Gas Control
No			Hg	PM	SVM	LVM	HCl	CL2	THC	CO	DIF	Group No.	
9	INC	WHB/FF/VQ/PT/DM	0	0	0	0	0	95	25	63	75	35	Moderate DOM on comb. + Add WQ + PT
0	INC	FF/S	75	0	50	75	20	0	0	0	25	29	Small DOM on WS + Add RH + CI + FF
1	INC	SS/PT/VS	25	0	75	50	0	88	0	0	0	13	Add RH + CI + FF + PT
2	INC	FF/S	0	36	0	0	71	0	0	0	0	7	Moderate DOM on FP and WS
4	INC	IWS	97	35	92	47	0	25	0	0	0	29	Small DOM on WS + Add RH + CI + FF
6	INC	HES/WS	76	50	92	39	0	0	0	0	0	9	Add RH + CI + FF
1	INC	PT	40	0	0	0	0	84	0	0	52	15	Add RH + CI + FF + PT
2	INC	WHB/SD/ESP/Q/PBS	50	0	0	0	0	0	0	0	83	8	Add CI
9	INC	WHB/ACS/HCS/CS	75	21	0	0	71	75	0	75	96	43	Add AB + RH + CB + IWS
4	INC	7	50	0	91	28	76	0	0	0	75	13	Add RH + CI + FP + PT
5	INC	SD/FF/WS/IWS	83	0	32	0	0	75	0	0	0	15	Moderate DOM on FF + Add CI + PT
7	INC	SD/FF/WS/ESP	99	0	0	0	0	0	0	0	99	8	Add CI
9	INC	PT/IWS	75	51	75	75	0	0	0	0	50	9	Add RH + CI + FP
0	INC	QT/WS/DM	4	64	82	0	51	0	0	0	99	3	Moderate DOM on WS + Add RH + CI + FP
1	INC	PT/IWS	89	0	98	0	75	75	0	0	0	13	Add RH + CI + FF + PT
2	INC	WS	25	87	0	0	35	95	0	80	75	39	Add AB + RH + CI + FF + PT
3	INC	SD/FP	0	0	0	50	57	0	0	0	0	14	Moderate DOM on SD and FF
4	INC	WS/ESP/PT	16	73	99	84	0	0	0	0	89	9	Add RH + CI + FF
7	INC	WHB/DA/DI/FF	97	0	27	64	0	80	0	0	0	58	Moderate DOM on FP and DI + Add CI
8	INC	QC/FP/SS/C/HES/DM	92	0	0	0	0	0	0	0	0	8	Add CI
9	INC	AT/PT/RJS/ESP	75	0	50	0	0	0	0	0	0	28	Moderate DOM on ESP + RH + CB
0	INC	WHB/ESP/WS	51	0	0	0	0	75	0	0	75	59	Moderate DOM on WS + Add WQ + CI
1	INC	DA/DI/FF/HEPA/CA	0	0	0	0	0	0	0	0	50	8	Add CI
2	INC	WHB/QC/S/VS/DM	25	0	0	0	0	75	0	0	0	40	Add RH + CB + PT
4	INC	QC/VS/PT/DM	50	0	0	0	0	0	0	0	25	9	Add RH + CI + FF
6	INC	C/QC/VS/PT/DM	0	0	33	0	0	75	0	0	0	60	Small DOM on VS + Add PT
7	INC	C/QC/VS/S/DM	3	0	0	0	0	0	0	0	0	1	None
8	INC	QC/AS/IWS	75	0	0	0	0	0	0	0	25	32	Add RH + CB
9	INC	QC/FF/QC/PT	0	0	0	75	50	75	0	0	0	4	Add IWS
0	INC	WHB/HE/FF	0	0	75	50	0	0	0	0	0	6	Add FF
1	INC	GC/C/FP	50	0	0	0	0	75	0	0	50	34	Add CI + PT
3	INC	QC/VS/DM/ESP	0	31	40	33	0	0	0	0	0	17	Moderate DOM on ESP

TABLE C-14b. MODEL GROUP SELECTION FOR OPTION 3 WITH 25% FEED REDUCTION

Type	Canons APCS	% Emission Reduction Required to Meet Option 3 with 25% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
		Hg	PM	SVM	LVM	HCl	CL2	THC	CO	D/F		
INC	QC/AS/VS/DM/IWS	0	0	0	0	0	14	0	0	0	1	None
INC	QC/AS/FR/ATM	75	52	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
INC	QC/VS/PT/IWS	75	39	75	0	0	0	0	0	0	9	Add RH + CI + FF
INC	QC/VS/CC/TS/DM	50	53	50	0	0	75	0	0	0	13	Add RH + CI + FF + PT
INC	WHB/FF/S	75	20	88	100	0	0	0	0	0	9	Add RH + CI + FF
INC	SD/FF	69	0	92	28	0	75	0	0	50	36	Add CI + IWS
INC	QC/VS/KOV/DM	0	0	0	0	0	89	0	0	0	2	Add PT
INC	WHB/QC/PBC/VS/ES	50	57	95	0	0	0	0	0	0	9	Add RH + CI + FF
INC	HH/RL/TH/PT	68	43	92	81	0	75	0	50	75	38	Moderate DOM on comb. + Add CI + IWS
INC	VS/C	100	17	0	47	0	0	0	0	0	9	Add RH + CI + FF
INC	WHB/QC/PT/IWS	25	0	0	50	0	75	0	0	0	4	Add IWS
INC	SD/RS/VS/WS	0	65	100	89	0	0	0	0	0	6	Add FF
INC	VS/PT	75	65	0	75	0	0	0	0	50	9	Add RH + CI + FF
INC	QT/S/C	0	82	75	0	0	75	0	0	75	13	Add RH + CI + FF + PT
INC	WHB	75	0	0	0	92	0	0	0	0	20	Add WQ + CB + PT
INC	NONE	25	23	0	0	84	75	0	0	0	4	Add IWS
INC	QT/VS/ES/PT	61	44	65	33	0	0	0	0	75	9	Add RH + CI + FF
INC	QT/HS/C	75	65	0	0	0	75	0	0	0	13	Add RH + CI + FF + PT
INC	QT/WS	0	63	75	0	0	0	0	99	50	25	Add AB + RH + CI + FF
INC	WS/ESP	0	40	0	50	0	75	0	0	75	13	Add RH + CI + FF + PT
INC	NONE	50	63	0	0	0	0	0	0	0	10	Add WQ + CB + FF
INC	QT/OS/C/S	50	46	75	0	72	99	0	0	0	13	Add RH + CI + FF + PT
INC	C/VS/AS	25	48	0	0	0	75	0	0	75	13	Add RH + CI + FF + PT
INC	NONE	0	31	0	0	0	0	0	0	0	6	Add FF
INC	VS/PT	75	78	50	0	4	75	0	0	75	13	Add RH + CI + FF + PT
INC	WS	0	18	75	0	50	0	0	0	50	3	Moderate DOM on WS + Add RH + CI + FF
INC	WS/QT	0	25	0	0	0	98	0	0	4	13	Add RH + CI + FF + PT
INC	QC/CS/DM/VS	75	0	75	75	0	75	0	0	0	13	Add RH + CI + FF + PT
INC	GC/C/FF	0	82	75	50	0	0	89	95	0	21	Add AB + FF
INC	QT/PT/VS	0	65	0	0	0	75	0	0	75	37	Moderate DOM on VS + Add RH + CB + PT
INC	NONE	0	63	75	50	97	0	0	0	0	4	Add IWS
INC	QT/QS/VS/ES/PAS	0	73	0	0	50	80	0	71	75	24	Moderate DOM on comb. + Add RH + CI + FF + PT

TABLE C-14b. MODEL GROUP SELECTION FOR OPTION 3 WITH 25% FEED REDUCTION

BR No.	Type	Current APCS	% Emission Reduction Required to Meet Option 3 with 25% Feed Reduction									Model Group No.	Required Add-on Flue Gas Control
			Hg	PM	SVM	LVM	HCl	CL2	THC	CO	D/F		
6	INC	Q/VS	97	66	89	0	44	75	0	49	0	24	Moderate DOM on comb. + Add RH + CI + FP + PT
7	INC	C/WHB/VQ/PT/HS/DM	56	39	66	53	0	0	0	0	43	9	Add RH + CI + FP
8	INC	QT/PBS/ESP	25	0	75	50	0	0	0	0	0	6	Add FP
9	INC	VS	50	0	99	98	0	75	0	92	75	39	Add AB + RH + CI + FP + PT
0	INC	Q/VS/PBS	75	0	96	87	0	0	0	0	0	9	Add RH + CI + FP
4	INC	QT/VS/PT/DM	0	0	0	30	0	75	0	0	0	16	Moderate DOM on VS + Add PT
5	INC	CCS/QC/ESP	50	80	0	0	0	0	0	75	50	25	Add AB + RH + CI + FP
2	INC	QT/VS/PT	89	28	0	0	0	0	0	0	0	9	Add RH + CI + FP
4	INC	?	0	0	75	0	0	0	0	0	0	6	Add FP
5	INC	QT/VS/AB/CS	0	0	100	57	0	0	0	0	25	9	Add RH + CI + FP
6	INC	QT/PT	75	78	50	75	82	25	0	0	75	42	Add RH + CB + DWS
4	INC	?	0	0	0	50	75	94	75	0	95	39	Add AB + RH + CI + FP + PT
5	INC	QC/VS/C	75	73	95	88	50	0	7	84	53	25	Add AB + RH + CI + FP

TABLE C-14c. CHARACTERIZATION OF AFF MODEL PLANTS, OPTION 3, 25% FEED CONTROL

urce roup	Model Plant Number	Required Equipment	Reported Rules**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
.K	Group 3	Add FF	1	224	S	Ash Grove	ESP	148,537	147,000	
	Group 4	Add CI + FF	1	207	S	Keystone	MCESP	90,681	147,000	
			1	301	S	Essroc	FF	185,909	147,000	
			2	302 *	S	Lafarge	ESP	130,576	147,000	
			3	308 *	S	North Texas	ESP	162,599	147,000	
			1	315 *	S	Southdown	FF	102,042	147,000	
			4	318 *	S	Texas Industries	ESP	152,675	147,000	
			1	401	S	Ash Grove	ESP	172,461	147,000	
			1	405	S	Ash Grove	ESP	194,905	147,000	
			1	202	L	Heartland	FF	221,471	370,000	
			1	205	L	Holnam	ESP	253,556	370,000	
			1	208	L	Keystone	ESP	307,644	370,000	
			1	303	L	Lone Star	MCFF	408,061	370,000	
	Group 5	Add CI + FF + WQ	2	299	S	Glens	FF	123,384	147,000	
			2	300	S	Essroc	ESP	164,692	147,000	
			1	403	S	Ash Grove	ESP	184,877	147,000	
			1	204	L	Holnam	ESP	693,613	370,000	
			1	304	L	Lone Star	ESP	300,367	370,000	
			1	306	L	National	MCFF	280,864	370,000	
			1	309	L	River Cement	MCESP	665,839	370,000	
			1	316 *	L	Southdown	FF	nr	370,000	
			1	317	L	Southdown	FF	472,190	370,000	
	Group 8	Add CI + FF + PT	1	321 *	S	Lafarge	ESP	59,542	147,000	85
			1	402	S	Ash Grove	ESP	187,605	147,000	85
			3	320 *	L	Lafarge	FF	nr	370,000	85
	Group 10	Add CI + FF + PT + WQ	2	305	S	Medusa	ESP	190,903	147,000	85
			1	323	S	Lafarge	FF	185,409	147,000	85
			1	335	S	Medusa	ESP	100,578	147,000	85
			1	303	L	Holnam	ESP	291,645	370,000	85
			1	206	L	Holnam	ESP	348,510	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
	Group 19	Add IWS + WQ	1	404	L	Ash Grove	ESP	255,721	370,000	85
	Group 20	Moderate DOM on ESP + Add WQ	1	322	S	Lafarge	ESP	112,269	147,000	
	Group 21	Moderate DOM on FF + WQ	2	201 *	S	Giant	FF	133,943	147,000	
/AK	Group 3	Add CI + FF	1	224	M	Solite	FF	39,049	40,500	
			2	307	M	Martin	FF/VS	49,060	40,500	
	Group 4	Add CI + FF + ST	1	223	M (to HCl)	Solite	FF	29,592	40,500	1,370
			1	311	M (to HCl)	Solite	FF	51,627	40,500	1,370
			1	312	M (to HCl)	Solite	FF	47,694	40,500	1,370
			1	226 *	M (to HCl)	Solite	FF	nr	40,500	875
			1	227	M (to HCl)	Solite	FF	38,796	40,500	875
			1	310	M (to HCl)	Solite	FF	47,770	40,500	875
			1	314	M (to HCl)	Solite	FF	36,793	40,500	875
			1	336 *	M (to HCl)	Solite	FF	30,336	40,500	875
	Group 5	Add ST	1	225	M (to HCl)	Solite	FF	38,270	40,500	875
	Group 6	Add IWS	1	313	M (to HCl)	Solite	FF	36,793	40,500	875

TABLE C-14c. CHARACTERIZATION OF ATF MODEL PLANTS, OPTION 3, 25% FEED CONTROL

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rce up	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (scfm)	Assigned Flue Gas Flowrate (scfm)	Equivalent HCl Conc (ppm)
C	Group 1	None	1	347	M	Department of Army	QC/QC/VS/S/DM	10,795	22,100	
			1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
	Group 2	Add PT	1	500	L	Chevron	QC/VS/KOV/DM	49,832	60,800	92
	Group 3	Moderate DOM on WS + Add CI + PF + RH	1	330	M	General Electric	QT/WS/DM	10,345	22,100	
			2	714 *	M	Olin Chemical	WS	19,185	22,100	
	Group 4	Add IWS	2	349 *	S	Radford Army Ammo Plant	QC/PF/QC/PT	5,653	3,900	92
			1	704	S	Ashland	NONE	5,011	3,900	92
			1	784	S	Cook Composites	NONE	or	3,900	92
			1	600 *	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
	Group 6	Add PF	1	904 *	S	First Chemical	?	5,950	3,900	
			1	350 *	M	Dupont	WHB/HE/PF	15,883	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
			1	808 *	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
			1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	Moderate DOM on PF and WS	1	212	L	LWD	PF/S	44,610	60,800	
	Group 8	Add CI	1	341 *	M	Glaxo	DA/DI/PF/HEPA/CA	or	22,100	
			1	222	L	WTI	WHB/SD/ESP/QP/PBS	93,718	60,800	
			1	327	L	Apree	SD/PF/WS/ESP	49,572	60,800	
			1	308	L	Dupont	QC/PF/SS/C/HPS/DM	65,594	60,800	
	Group 9	Add CI + PF + RH	1	302 *	S	Pfizer	WHB/QC/PBC/VS/PS	6,647	3,900	
			1	905 *	S	Velsicol Chemical	QT/VS/AS/CS	or	3,900	
			1	344 *	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	357 *	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	359 *	M	Ainchem	WHB/PF/S	13,802	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	701 *	M	Eli Lilly	VS/PT	9,208	22,100	
			1	705	M	Ciba-Geigy	QT/VS/ESP/PT	34,116	22,100	
			1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
			1	810 *	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	216	L	Reffins	HES/WS	40,002	60,800	
			1	329 *	L	Dupont	PT/TWS	53,489	60,800	
			1	334	L	3M	WS/ESP/PT	40,399	60,800	
	Group 10	Add CB + PF + WQ	1	709 *	S	Cargill Chemical	NONE	3,123	3,900	

TABLE C-14c. CHARACTERIZATION OF ATF MODEL PLANTS, OPTION 3, 25% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Reported Ratio**	Site ID		Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
	Group 13	Add CI + PP + PT + RH	1	336	*	S	Dupont	QC/AS/FN/DM	3,160	3,900	92
			1	708	*	S	Burroughs Wellcome	WS/ESP	3,087	3,900	92
			1	713	*	S	Pfizer	VS/PT	2,625	3,900	92
			1	725		S	Zeneca	WS/QT	1,489	3,900	92
			1	726	*	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	324	*	M	Allied	?	32,320	22,100	92
			1	358	*	M	Eli Lilly	QC/VS/CC/TS/DM	14,406	22,100	92
			1	702	*	M	Dupont	QT/S/C	nr	22,100	92
			1	706	*	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
			1	710	*	M	Dupont	QT/OS/C/S	nr	22,100	92
			1	211	*	L	LWD	SS/PT/VS	43,596	60,800	92
			1	221		L	Rollins	PT	31,114	60,800	92
			1	331	*	L	Ross	PT/DW	44,379	60,800	92
			1	711	*	L	Chevron Chemical	C/VS/AS	52,907	60,800	92
	Group 14	Moderate DOM on SD and PP	1	333		L	Trade Waste	SD/PP	42,042	60,800	
	Group 15	Moderate DOM on PP + Add CI + PT	1	325	*	M	Apcoa	SD/PP/WS/WS	23,127	22,100	92
	Group 16	Moderate DOM on VS + Add PT	1	824	*	S	Pennwalt	QT/VS/PT/DM	1,065	3,900	92
	Group 17	Moderate DOM on ESP	1	353		M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
	Group 20	Add CB + PT + WQ	1	703	*	S	Aristech	WHB	1,873	3,900	92
	Group 21	Add AB + PP	1	727		S	Iowa Army Ammo Plant	QC/C/PP	3,043	3,900	
	Group 24	Moderate DOM on comb. + Add CI + PP + PT + RH	1	805	*	M	Amoplate Cytomed	QT/QS/VS/ES/PBS	31,943	22,100	92
			1	806	*	M	Amoco Oil	C/VS	20,641	22,100	92
	Group 25	Add AB + CI + PP + RH	1	825	*	M	General Electric	CC/SQC/ESP	21,303	22,100	
			1	915		M	Eastman Kodak	QC/VS/C	nr	22,100	
			1	707	*	L	Dupont	QT/WS	58,120	60,800	
	Group 28	Moderate DOM on ESP + CB + RH	1	330	*	S	Dupont	AT/PT/RS/RSP	6,363	3,900	
	Group 29	Small DOM on FWS + Add CI + PP + RH	1	214		M	Rollins	FWS	24,655	22,100	
			1	210	*	L	LWD	PP/C	96,107	60,800	
	Group 32	Add CB + RH	1	348	*	S	Occidental Chemical	QC/AS/WS	nr	3,900	
	Group 34	Add CI + PT	1	351	*	S	Iowa Army Ammo Plant	SD/C/PP	3,457	3,900	92
	Group 35	Moderate DOM on comb. + Add PT + WQ	1	269	*	M	Laidlaw	WHB/PP/VQ/PP/DM	21,716	22,100	92
	Group 36	Add CI + FWS	1	450	*	L	Marine Shale	SD/PP	179,333	60,800	92
	Group 37	Moderate DOM on VS + Add CB + PT + RH	1	738	*	S	Eli Lilly	QT/PT/VS	3,819	3,900	92
	Group 38	Moderate DOM on comb. + Add CI + FWS	1	503	*	S	Lake City Army Ammo Plant	H/THE/LT/HB/PP	4,747	3,900	92
	Group 39	Add AB + CI + PP + PT + RH	1	332	*	M	Thermalkem	WS	20,206	22,100	92
			1	914	*	M	Vertac Superfund	?	25,849	22,100	92
			1	909	*	L	Tennessee Eastman	VS	40,524	60,800	92
	Group 40	Add CB + PT + RH	1	342	*	S	Upjohn	WHB/QC/S/VS/DM	5,645	3,900	92
	Group 42	Add CB + FWS + RH	1	906	*	S	Monsanto	QT/PT	2,734	3,900	92
	Group 43	Add AB + CB + FWS + RH	1	229	*	S	Vulcan Materials	WHB/ACS/HC/SCS	1,171	3,900	92
	Group 58	Moderate DOM on PP and DI + Add CI	2	337		M	Olin Chemical	WHB/DA/SD/PP	13,907	22,100	92

TABLE C-14c. CHARACTERIZATION OF ATF MODEL PLANTS, OPTION 3, 25% FEED CONTROL

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...ros ...rop	Model Plant Number	Required Equipment	Reported Ratio**	Site ID	Site Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc. (ppm)
	Group 59	Moderate DOM on WS + Add CI + WQ	1	340 *	M	Miles	WHB/ESP/WS	16,003	22,100	92
	Group 60	Small DOM on VS + Add PT	1	346 *	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92

...cility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribution of reported values from other facilities.
...ported Ratio is equal to the number of total units located at a site divided by the number of units for which information was reported.
...ften a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units.
...ot reported

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 3	S	Add FF	1	$2,141K	$355K	$596K
	Group 4	S	Add CI,FF	14	$2,611K	$718K	$1,022K
		L		4	$5,658K	$1,490K	$2,139K
	Group 5	S	Add Q,CI,FF	5	$3,144K	$806K	$1,180K
		L		6	$6,570K	$1,645K	$2,414K
	Group 8	S	Add CI,FF,PT	2	$3,512K	$1,048K	$1,498K
		L		3	$7,593K	$2,174K	$3,138K
	Group 16	S	Add Q, CI, FF, PT	4	$4,045K	$1,136K	$1,656K
		L		3	$8,505K	$2,329K	$3,413K
	Group 19	L	Add Q, IWS	1	$5,322K	$902K	$1,740K
	Group 20	S	Moderate DOM on existing ESP, Add Q	1	$2,290K	$237K	$538K
	Group 21	S	Moderate DOM on existing FF, Add Q	2	$658K	$129K	$203K
LWAKS	Group 3	M	Add CI, FF	3	$1,074K	$350K	$480K
	Group 4	M (hi HCl)	Add CI, FF, ST	3	$2,302K	$680K	$1,009K
		M (lo HCl)		5	$2,302K	$611K	$941K
	Group 5	M (lo HCl)	Add ST	1	$1,229K	$261K	$461K
	Group 6	M (lo HCl)	Add IWS	1	$1,016K	$449K	$615K
Incinerators	Group 1	M	None	2	$0K	$0K	$0K
	Group 2	L		1	$445K	$195K	$267K
	Group 3	M	DOM WS mod, Add RH,CI/CB,FF	3	$1,004K	$405K	$541K
	Group 4	S	Add IWS	4	$215K	$97K	$132K
		L		1	$1,331K	$228K	$445K
	Group 6	S	Add FF	1	$82K	$89K	$98K
		M		3	$295K	$121K	$154K
		L		1	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
	Group 8	M	Add CI/CB	1	$397K	$147K	$199K
Incinerators		L		3	$425K	$224K	$280K
(cont)	Group 9	S	Add RH, CI/CB, FF	2	$575K	$241K	$315K
		M		9	$932K	$391K	$508K
		L		3	$1,681K	$672K	$876K

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
	Group 13	S	Add PT, RH, CI/CB, FF	5	$632K	$331K	$414K
		M		5	$1,137K	$515K	$665K
		L		4	$2,126K	$866K	$1,143K
	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	1	$620K	$278K	$364K
	Group 16	S	DOM VS mod, Add PT	1	$68K	$96K	$109K
	Group 17	M	DOM ESP mod	1	$535K	$50K	$120K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K
	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
	Group 24	M	DOM combustor, Add PT,RH,CI/CB,FF	2	$1,291K	$515K	$690K
	Group 25	M	Add AB,RH,CI/CB,FF	2	$1,349K	$924K	$1,096K
		L		1	$2,223K	$1,947K	$2,223K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$178K	$267K
	Group 29	M	DOM IWS small, Add RH,CI/CB,FF	1	$972K	$403K	$528K
		L		1	$1,782K	$702K	$925K
	Group 32	S	Add RH, CB/CI	1	$493K	$152K	$216K
	Group 34	S	Add CI/CB, PT	1	$398K	$181K	$235K
	Group 35	M	Moderate DOM on Combustor, Add Q, PT	1	$637K	$172K	$267K
	Group 36	L	Add CI/CB, IWS	1	$1,755K	$452K	$725K
	Group 37	S	Moderate DOM on existng VS, Add RH, CI/CB, PT	1	$561K	$248K	$326K
	Group 38	S	Moderate DOM on Combustor, Add CI/CB, IWS	1	$672K	$188K	$287K
	Group 39	M	Add RH, CI/CB, FF, PT, AB	2	$1,554K	$1,048K	$1,253K
Incinerators (cont)		L		1	$2,669K	$2,142K	$2,490K
	Group 40	S	Add RH, CI/CB, PT	1	$550K	$242K	$316K
	Group 42	S	Add RH, CI/CB, IWS	1	$708K	$249K	$348K
	Group 43	S	Add RH, CI/CB, IWS, AB	1	$973K	$441K	$576K
	Group 58	M	Moderate DOM on existing FF and DI, Add CI/CB	2	$778K	$174K	$286K
	Group 59	M	Moderate DOM on existing WS, Add CI/CB, Q	1	$746K	$210K	$317K
	Group 60	M	Small DOM on existing VS, Add PT	1	$244K	$137K	$178K

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj.% Reduct.	PM Req. % Reduct.	PM Adj.% Reduct.	SVM Req. % Reduct.	SVM Adj.% Reduct.	LVM Req. % Reduct.	LVM Adj.% Reduct.	HCl Req.% Reduct.	HCl Adj.% Reduct.	Cl2 Req. % Reduct.	Cl2 Adj.% Reduct.	HC Req. % Reduct.	HC Adj.% Reduct.	CO Req. % Reduct.	CO Adj.% Reduct.	TEQ Req. % Reduct.	TEQ Adj.% Reduct
Floor Levels		5.00		0.015		60.00		80.00		60.00		1.00		5.00		50.00		0.20	
200	CK	50.32	50	-9.24	0	11.79	12	79.20	79	-259.90	0	-9939.48	0	nr	50	nr	75	nr	25
201	CK	-88.50	0	-15.21	0	-19.45	0	76.95	77	-207.84	0	-19113.07	0	nr	75	nr	0	nr	75
202	CK	75.67	76	37.31	37	47.29	47	-171.43	0	-266.57	0	-275.34	0	nr	25	nr	75	nr	0
203	CK	16.29	16	-9.76	0	89.11	89	-189.88	0	46.51	47	-31.41	0	73.68	74	83.97	84	96.43	96
204	CK	71.34	71	50.13	50	87.34	87	-1160.17	0	-100402.56	0	-9353.25	0	nr	75	nr	75	64.91	65
205	CK	83.07	83	67.61	68	95.82	96	-302.25	0	-284.42	0	-388.22	0	77.74	78	68.68	69	-103.05	0
206	CK	69.25	69	37.46	37	77.89	78	-833.89	0	25.32	25	-2331.38	0	58.59	59	65.82	66	82.61	83
207	CK	70.08	70	34.01	34	83.38	83	-314.49	0	-1282.53	0	-241.01	0	nr	75	-55.04	0	-1150.00	0
208	CK	75.74	76	-4.38	0	30.45	30	-569.85	0	-1415.29	0	-329.31	0	nr	50	2.44	2	-4238.39	0
228	CK	nr	75	nr	50	nr	75	nr	0	nr	0	nr	0	70.41	70	91.26	91	2.44	0
300	CK	nr	75	79.02	79	96.85	97	8.66	9	-80.21	0	-241.59	0	73.86	74	86.56	87	98.33	98
301	CK	95.68	96	61.90	62	-558.71	0	-376.85	0	-27041.50	0	-464.49	0	58.57	59	92.67	93	nr	75
302	CK	nr	50	27.68	28	93.18	93	-292.55	0	-518.37	0	-113.63	0	nr	50	nr	50	nr	75
303	CK	82.82	83	34.78	35	-137.38	0	-574.52	0	-1488.16	0	-912.24	0	91.67	92	97.30	97	nr	0
304	CK	88.94	89	74.45	74	90.27	90	-98.82	0	-17386.05	0	-23156.06	0	nr	75	nr	75	88.89	89
305	CK	53.45	53	79.40	79	94.43	94	-169.43	0	42.41	42	-310.12	0	77.61	78	98.79	99	99.65	99
306	CK	99.86	100	0.47	0	-270.97	0	-504.69	0	-2784.36	0	-494.23	0	nr	75	-6.16	0	-266.30	0
308	CK	nr	75	31.82	32	33.16	33	-968.07	0	-1230.02	0	-30.46	0	nr	50	nr	75	nr	75
309	CK	87.05	87	37.11	37	89.71	90	-1574.72	0	-26.92	0	-796.72	0	66.89	67	63.37	63	99.62	99
315	CK	nr	75	-1320.07	0	-307.71	0	-615.13	0	-2884.12	0	-4051.35	0	nr	50	nr	75	nr	75
316	CK	nr	50	-27.22	0	-963.78	0	-1053.42	0	-129.09	0	-10.72	0	16.67	17	81.95	82	nr	75
317	CK	nr	75	-565.43	0	-108.38	0	-241.51	0	-1254.51	0	-1965.79	0	91.04	91	85.27	85	83.87	84
318	CK	nr	75	-62.51	0	53.66	54	-332.38	0	-26.00	0	-1105.30	0	23.08	23	83.10	83	nr	75
319	CK	90.96	91	60.00	60	90.38	90	-25.95	0	-0.72	0	90.21	90	92.23	92	81.21	81	96.42	96
320	CK	nr	75	-399.99	0	-2606.88	0	-1709.29	0	-2026.92	0	51.83	52	95.02	95	97.60	98	-136.97	0
321	CK	nr	50	85.71	86	-802.93	0	-1294.44	0	-1248.40	0	60.91	61	nr	50	nr	50	nr	0
322	CK	nr	0	-15.38	0	59.73	60	-208.71	0	-178.41	0	-390.28	0	32.43	32	91.99	92	92.54	93
323	CK	nr	75	46.43	46	93.06	93	0.42	0	27.48	27	-1080.36	0	52.38	52	91.95	92	94.44	94
335	CK	87.59	88	25.96	26	91.37	91	-647.06	0	45.86	46	-148.24	0	71.86	72	67.34	67	99.20	99
401	CK	91.75	92	71.20	71	93.35	93	19.03	19	-179.24	0	-76.83	0	90.33	90	94.75	95	48.72	49
402	CK	84.44	84	71.96	72	98.23	98	24.87	25	-325.73	0	71.36	71	83.26	83	95.67	96	nr	0
403	CK	99.43	99	56.69	57	-100.61	0	-143.20	0	-10132.30	0	-4529.68	0	71.70	72	91.80	92	81.31	81
404	CK	-17.57	0	-214.09	0	-7.97	0	37.49	37	14.29	14	33.74	34	68.51	69	93.02	93	77.88	78
405	CK	75.23	75	31.72	32	93.69	94	72.09	72	-2468.19	0	-173.45	0	76.66	77	95.65	96	nr	50

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj.% Reduct.	PM Req. % Reduct.	PM Adj.% Reduct.	SVM Req. % Reduct.	SVM Adj.% Reduct.	LVM Req. % Reduct.	LVM Adj.% Reduct.	HCl Req.% Reduct.	HCl Adj.% Reduct.	Cl2 Req. % Reduct.	Cl2 Adj.% Reduct.	HC Req. % Reduct.	HC Adj.% Reduct.	CO Req. % Reduct.	CO Adj.% Reduct.	TEQ Req. % Reduct.	TEQ Adj.% Reduct
Floor Levels		5.00		0.015		60.00		80.00		60.00		1.00		5.00		50.00		0.20	
223	LWAK	83.87	84	-479.94	0	-962.76	0	-124.69	0	97.22	97	-59.74	0	nr	50	nr	0	nr	0
224	LWAK	65.09	65	-427.20	0	-1408.79	0	-331.05	0	-6137.91	0	-131.30	0	nr	50	nr	75	nr	0
225	LWAK	-6.84	0	-4045.81	0	-6064.30	0	-692.88	0	90.05	90	-614.29	0	nr	50	nr	0	nr	0
226	LWAK	nr	50	-1385.13	0	nr	0	nr	0	nr	75	nr	0	nr	50	nr	75	nr	0
227	LWAK	70.07	70	-926.73	0	-193.58	0	-297.03	0	96.05	96	-132.62	0	60.00	60	96.25	96	nr	0
307	LWAK	98.98	99	-38.09	0	-946.18	0	-25.21	0	-173.13	0	-70.00	0	nr	50	-10.30	0	nr	0
310	LWAK	63.85	64	6.25	6	82.19	82	-33.99	0	94.97	95	54.57	55	nr	50	nr	0	nr	0
311	LWAK	66.92	67	-150.00	0	86.54	87	-121.23	0	95.09	95	86.43	86	nr	50	nr	75	nr	0
312	LWAK	40.68	41	-114.28	0	85.87	86	-126.36	0	95.35	95	87.67	88	nr	50	nr	0	nr	0
313	LWAK	-1248.51	0	-150.00	0	86.65	87	72.82	73	96.08	96	-61.85	0	nr	50	nr	75	nr	0
314	LWAK	80.16	80	42.18	42	96.37	96	60.57	61	92.68	93	48.45	48	nr	50	nr	0	nr	0
336	LWAK	nr	75	-84.34	0	nr	75	nr	0	nr	75	nr	75	nr	50	nr	75	-418.13	0

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj.% Reduct.	PM Req. % Reduct.	PM Adj.% Reduct.	SVM Req. % Reduct.	SVM Adj.% Reduct.	LVM Req. % Reduct.	LVM Adj.% Reduct.	HCl Req.% Reduct.	HCl Adj.% Reduct.	Cl2 Req. % Reduct.	Cl2 Adj.% Reduct.	HC Req. % Reduct.	HC Adj.% Reduct.	CO Req. % Reduct.	CO Adj.% Reduct.	TEQ Req. % Reduct.	TEQ Adj.% Reduct
Floor Levels		5.00		0.015		60.00		80.00		25.00		1.00		5.00		50.00		0.20	
209	INC	-56.03	0	-223.01	0	-650.89	0	-254.98	0	-135.39	0	95.33	95	nr	25	81.58	82	nr	75
210	INC	nr	0	-192.21	0	nr	50	nr	75	25.55	26	-217.40	0	-28.98	0	-13642.61	0	nr	25
211	INC	nr	50	-44.23	0	nr	75	nr	50	-7.85	0	87.71	88	-115.17	0	-951.02	0	nr	0
212	INC	nr	75	36.13	36	nr	0	nr	0	71.26	71	-491.78	0	-44.54	0	-917.31	0	nr	0
214	INC	97.48	97	35.45	35	91.85	92	47.30	47	-1644.19	0	nr	25	-305.40	0	-230.99	0	-237.84	0
216	INC	75.83	76	50.15	50	92.40	92	38.76	39	-165.50	0	nr	0	nr	75	-384.92	0	nr	0
221	INC	40.24	40	-5.42	0	-46.48	0	-31.44	0	-104.71	0	83.63	84	-41.03	0	-226.18	0	52.38	52
222	INC	nr	50	-597.56	0	-2035.46	0	nr	0	-1667.15	0	-167.01	0	-1425.98	0	-33.75	0	82.76	83
229	INC	nr	75	21.26	21	-32.26	0	-33.89	0	71.33	71	nr	75	nr	0	nr	75	96.38	96
324	INC	nr	50	-38.89	0	90.69	91	27.68	28	75.75	76	nr	0	nr	0	-59.91	0	nr	75
325	INC	82.70	83	-361.53	0	32.20	32	-152.27	0	-367.54	0	nr	75	-490.98	0	-383.87	0	nr	0
327	INC	99.42	99	-1094.70	0	-192.11	0	-200.94	0	-670.26	0	-453.59	0	3.94	4	-498.03	0	98.75	99
329	INC	nr	75	50.74	51	nr	75	nr	75	-256.06	0	-181.09	0	-102.15	0	-417.79	0	nr	50
330	INC	4.09	4	64.37	64	82.35	82	-49.79	0	50.72	51	nr	0	nr	50	nr	0	99.25	99
331	INC	88.98	89	-87.50	0	98.38	98	-43.68	0	nr	75	nr	75	nr	0	nr	0	-191.97	0
332	INC	nr	25	87.30	87	nr	0	nr	0	34.85	35	94.78	95	nr	0	90.00	90	nr	75
333	INC	nr	0	-1053.82	0	nr	0	nr	50	56.80	57	-76.65	0	nr	0	-1018.45	0	nr	0
334	INC	16.42	16	72.94	73	98.68	99	84.07	84	-57.03	0	nr	0	-146.46	0	32.52	33	89.47	89
337	INC	96.95	97	-6247.01	0	27.17	27	64.19	64	-7078.53	0	80.05	80	-53.62	0	-6480.76	0	nr	0
338	INC	91.74	92	-1099.99	0	-102.30	0	-5.63	0	-16691.60	0	-1938.12	0	-173.60	0	-2389.47	0	nr	0
339	INC	nr	75	-414.21	0	nr	50	nr	0	-43.75	0	-7449.86	0	-303.49	0	nr	0	nr	0
340	INC	51.48	51	-130.06	0	-588.07	0	-597.04	0	-49.86	0	nr	75	-209.62	0	-69.02	0	nr	75
341	INC	-435.90	0	-916.94	0	-333.83	0	-944.00	0	-1595.10	0	nr	0	nr	50	13.27	13	nr	50
342	INC	25.42	25	-316.97	0	-210.32	0	-3408.50	0	-11883.28	0	nr	75	nr	0	nr	0	nr	0
344	INC	nr	50	-826.62	0	-271.78	0	-16.98	0	-2652.25	0	nr	0	-178.75	0	-209.81	0	nr	25
346	INC	-1698.05	0	-1067.30	0	33.47	33	-553.14	0	-3233.16	0	nr	75	nr	0	-77.84	0	-63.93	0
347	INC	3.20	3	-115.39	0	-468.68	0	-443.92	0	-1578.83	0	nr	0	nr	0	nr	0	-936.27	0
348	INC	nr	75	-1399.99	0	-593.53	0	-2435.15	0	-44841.42	0	-100.54	0	nr	0	-502.09	0	nr	75
349	INC	nr	0	-690.51	0	-60.84	0	nr	75	nr	50	nr	75	nr	0	-476.61	0	nr	0
350	INC	nr	0	-633.69	0	nr	75	nr	50	nr	0	nr	0	nr	0	-1385.22	0	nr	0
351	INC	nr	50	-68.16	0	nr	0	-645.40	0	nr	0	nr	75	nr	0	32.39	32	nr	50
353	INC	-23.87	0	30.81	31	40.23	40	32.99	33	nr	0	nr	0	nr	0	-214.55	0	-57.48	0
354	INC	-498.43	0	-141.54	0	-2429.72	0	-684.78	0	-4154.36	0	14.29	14	nr	0	-1590.75	0	-2624.80	0
356	INC	nr	75	51.61	52	nr	0	nr	0	nr	0	nr	75	nr	25	-1250.82	0	nr	75
357	INC	nr	75	38.53	39	nr	75	nr	0	-268.06	0	nr	0	nr	75	-354.30	0	nr	0
358	INC	nr	50	52.79	53	nr	50	nr	0	-728.93	0	nr	75	nr	0	-3231.54	0	nr	0
359	INC	nr	75	19.91	20	88.43	88	99.85	100	-211.26	0	nr	0	nr	0	49.71	50	nr	0
400	INC	68.86	69	-152.37	0	91.99	92	27.87	28	nr	0	nr	75	nr	50	nr	0	nr	50
500	INC	-67.73	0	-767.27	0	-2012.85	0	-2249.06	0	-80.57	0	88.95	89	nr	0	nr	75	-430.50	0
502	INC	nr	50	57.14	57	95.25	95	-5.12	0	-19.38	0	nr	0	nr	0	nr	50	-796.86	0
503	INC	67.77	68	43.40	43	92.20	92	81.34	81	nr	0	nr	75	nr	0	nr	50	nr	75
504	INC	99.73	100	16.67	17	-54.59	0	46.56	47	-446.47	0	nr	0	nr	0	nr	0	nr	0
600	INC	nr	25	-100.00	0	nr	0	nr	50	-2035.24	0	nr	75	nr	0	nr	0	nr	0
700	INC	-11.67	0	65.40	65	99.77	100	88.65	89	-89.72	0	-726.66	0	nr	0	nr	0	nr	0
701	INC	nr	75	65.22	65	nr	0	nr	75	-132.29	0	nr	0	-549.35	0	nr	0	nr	50
702	INC	nr	0	81.59	82	nr	75	nr	0	nr	0	nr	75	nr	0	nr	0	nr	75
703	INC	nr	75	-400.00	0	nr	0	nr	0	92.28	92	nr	0	-1233.93	0	-4240.46	0	nr	0
704	INC	nr	25	23.08	23	nr	0	nr	0	83.78	84	nr	75	nr	0	-1042.24	0	nr	0
705	INC	61.00	61	43.74	44	64.66	65	32.84	33	-154.15	0	nr	0	nr	0	-1632.17	0	nr	75
706	INC	nr	75	64.87	65	nr	0	nr	0	-4633.70	0	nr	75	3.55	4	-25.75	0	-895.02	0
707	INC	nr	0	62.86	63	nr	75	nr	0	-394.52	0	nr	0	nr	0	99.28	99	nr	50
708	INC	nr	0	39.80	40	nr	0	nr	50	-3334.37	0	nr	75	nr	0	-473.71	0	nr	75
709	INC	nr	50	63.41	63	nr	0	nr	0	nr	0	nr	0	-291.04	0	-544.33	0	nr	0
710	INC	nr	50	45.78	46	nr	75	nr	0	72.29	72	99.33	99	60.53	61	-70.45	0	nr	0
711	INC	nr	25	47.67	48	nr	0	nr	0	-2880.51	0	nr	75	nr	50	-245.51	0	nr	75

EER Site ID No.	Type	Hg Req. % Reduct.	Hg Adj.% Reduct.	PM Req. % Reduct.	PM Adj.% Reduct.	SVM Req. % Reduct.	SVM Adj.% Reduct.	LVM Req. % Reduct.	LVM Adj.% Reduct.	HCl Req.% Reduct.	HCl Adj.% Reduct.	Cl2 Req. % Reduct.	Cl2 Adj.% Reduct.	HC Req. % Reduct.	HC Adj.% Reduct.	CO Req. % Reduct.	CO Adj.% Reduct.	TEQ Req. % Reduct.	TEQ Adj.% Reduct
712	INC	nr	0	30.97	31	-2569.12	0	-241.79	0	nr	0	nr	0	nr	0	nr	0	nr	0
713	INC	nr	75	77.78	78	nr	50	nr	0	4.33	4	nr	75	nr	0	-2398.65	0	nr	75
714	INC	nr	0	18.48	18	nr	75	nr	0	50.00	50	nr	0	nr	0	-195.25	0	nr	50
725	INC	-210.22	0	24.62	25	-52.46	0	-69.64	0	-361.62	0	98.28	98	-185.71	0	-1110.45	0	3.85	4
726	INC	nr	75	-499.99	0	nr	75	nr	75	nr	0	nr	75	65.76	66	-147.16	0	nr	0
727	INC	nr	0	81.71	82	nr	75	nr	50	nr	0	nr	0	97.29	97	97.74	98	nr	0
728	INC	nr	0	65.04	65	nr	0	nr	0	-6322.20	0	nr	75	nr	0	nr	0	nr	75
784	INC	nr	0	63.41	63	nr	75	nr	50	97.23	97	nr	0	nr	0	-1273.27	0	nr	0
805	INC	nr	0	73.50	73	nr	0	nr	0	nr	50	80.29	80	-4.12	0	85.39	85	nr	75
806	INC	96.83	97	66.47	66	89.06	89	-1025.54	0	43.50	44	nr	75	67.16	67	74.58	75	nr	0
807	INC	56.23	56	39.43	39	66.18	66	53.04	53	-1127.50	0	-237.27	0	-123.95	0	-831.18	0	42.53	43
808	INC	nr	25	-38.32	0	nr	75	nr	50	-5888.96	0	nr	0	nr	0	1.62	2	-29.87	0
809	INC	nr	50	nr	0	99.41	99	97.87	98	nr	0	nr	75	-13.61	0	95.94	96	nr	75
810	INC	nr	75	nr	0	95.89	96	86.54	87	nr	0	nr	0	nr	0	-221.89	0	nr	0
824	INC	-603.10	0	-134.37	0	-25.66	0	29.62	30	-965.34	0	nr	75	nr	0	-487.13	0	nr	0
825	INC	nr	50	80.00	80	nr	0	nr	0	-966.47	0	nr	0	nr	0	nr	75	nr	50
902	INC	89.29	89	28.23	28	-148.65	0	-725.08	0	-451.17	0	nr	0	-13.70	0	-26.92	0	-3167.97	0
904	INC	nr	0	-68.54	0	nr	75	nr	0	nr	0	nr	0	35.02	35	-9831.93	0	nr	0
905	INC	nr	0	nr	0	99.77	100	56.79	57	nr	0	nr	0	nr	0	-36.48	0	nr	25
906	INC	nr	75	77.68	78	nr	50	nr	75	81.73	82	nr	25	-147.78	0	-729.92	0	nr	75
914	INC	nr	0	-257.14	0	nr	0	nr	50	nr	75	93.78	94	nr	75	-1288.89	0	95.44	95
915	INC	nr	75	73.45	73	95.11	95	88.18	88	nr	50	nr	0	76.74	77	92.24	92	52.94	53

TABLE C-15B. MODEL GROUP SELECTION FOR OPTION 4A WITH 0% FEED REDUCTION

EER Site ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 4 with 0% Feed Reduction									Model Group No.	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	THC	CO	D/F		
200	CK	FF	50	0	12	79	0	0	50	75	25	12	Add AB + WQ + CI + FF
201	CK	FF	0	0	0	77	0	0	75	0	75	24	Add AB + WQ + FF
202	CK	FF	76	37	47	0	0	0	25	75	0	12	Add AB + WQ + CI + FF
203	CK	ESP	16	0	89	0	47	0	74	84	96	13	Add AB + WQ + CI + FF + PT
204	CK	ESP	71	50	87	0	0	0	75	75	65	12	Add AB + WQ + CI + FF
205	CK	ESP	83	68	96	0	0	0	78	69	0	12	Add AB + WQ + CI + FF
206	CK	ESP	69	37	78	0	25	0	59	66	83	13	Add AB + WQ + CI + FF + PT
207	CK	MC/ESP	70	34	83	0	0	0	75	0	0	12	Add AB + WQ + CI + FF
208	CK	ESP	76	0	30	0	0	0	50	2	0	12	Add AB + WQ + CI + FF
228	CK	ESP	75	50	75	0	0	0	70	91	0	12	Add AB + WQ + CI + FF
300	CK	ESP	75	79	97	9	0	0	74	87	98	12	Add AB + WQ + CI + FF
301	CK	FF	96	62	0	0	0	0	59	93	75	12	Add AB + WQ + CI + FF
302	CK	ESP	50	28	93	0	0	0	50	50	75	12	Add AB + CI + FF + WQ
303	CK	QC/FF	83	35	0	0	0	0	92	97	0	12	Add AB + WQ + CI + FF
304	CK	ESP	89	74	90	0	0	0	75	75	89	12	Add AB + WQ + CI + FF
305	CK	ESP	53	79	94	0	42	0	78	99	99	13	Add AB + WQ + CI + FF + PT
306	CK	MC/FF	100	0	0	0	0	0	75	0	0	12	Add AB + CI + FF + WQ
308	CK	ESP	75	32	33	0	0	0	50	75	75	12	Add AB + CI + FF + WQ
309	CK	MC/ESP	87	37	90	0	0	0	67	63	99	12	Add AB + CI + FF + WQ
315	CK	FF	75	0	0	0	0	0	50	75	75	12	Add AB + CI + FF + WQ
316	CK	FF	50	0	0	0	0	0	17	82	75	12	Add AB + CI + FF + WQ
317	CK	FF	75	0	0	0	0	0	91	85	84	12	Add AB + CI + FF + WQ
318	CK	ESP	75	0	54	0	0	0	23	83	75	12	Add AB + CI + FF + WQ
319	CK	ESP	91	60	90	0	0	90	92	81	96	13	Add AB + WQ + CI + FF + PT
320	CK	FF	75	0	0	0	0	52	95	98	0	13	Add AB + WQ + CI + FF + PT
321	CK	ESP	50	86	0	0	0	61	50	50	0	13	Add AB + WQ + CI + FF + PT
322	CK	ESP	0	0	60	0	0	0	32	92	93	27	Moderate DOM on ESP + Add AB + WQ
323	CK	ESP	75	46	93	0	27	0	52	92	94	13	Add AB + WQ + CI + FF + PT
335	CK	ESP	88	26	91	0	46	0	72	67	99	13	Add AB + WQ + CI + FF + PT
401	CK	ESP	92	71	93	19	0	0	90	95	49	12	Add AB + WQ + CI + FF
402	CK	ESP	84	72	98	25	0	71	83	96	0	13	Add AB + WQ + CI + FF + PT
403	CK	ESP	99	57	0	0	0	0	72	92	81	12	Add AB + WQ + CI + FF
404	CK	ESP	0	0	0	37	14	34	69	93	78	26	Add AB + WQ + IWS
405	CK	ESP	75	32	94	72	0	0	77	96	50	12	Add AB + WQ + CI + FF

TABLE C-15B. MODEL GROUP SELECTION FOR OPTION 4A WITH 0% FEED REDUCTION

EER Site ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 4 with 0% Feed Reduction									Model Group No.	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	THC	CO	D/F		
223	LWAK	FF	84	0	0	0	97	0	50	0	0	11	Add AB + WQ + CI + FF + ST
224	LWAK	FF	65	0	0	0	0	0	50	75	0	9	Add AB + WQ + CI + FF
225	LWAK	FF	0	0	0	0	90	0	50	0	0	14	Add AB + WQ + ST
226	LWAK	FF	50	0	0	0	75	0	50	75	0	11	Add AB + WQ + CI + FF + ST
227	LWAK	FF	70	0	0	0	96	0	60	96	0	11	Add AB + WQ + CI + FF + ST
307	LWAK	FF/VS	99	0	0	0	0	0	50	0	0	9	Add AB + WQ + CI + FF
310	LWAK	FF	64	6	82	0	95	55	50	0	0	11	Add AB + WQ + CI + FF + ST
311	LWAK	FF	67	0	87	0	95	86	50	75	0	11	Add AB + WQ + CI + FF + ST
312	LWAK	FF	41	0	86	0	95	88	50	0	0	11	Add AB + WQ + CI + FF + ST
313	LWAK	FF	0	0	87	73	96	0	50	75	0	13	Add AB + WQ + IWS
314	LWAK	FF	80	42	96	61	93	48	50	0	0	11	Add AB + WQ + CI + FF + ST
336	LWAK	FF	75	0	75	0	75	75	50	75	0	11	Add AB + WQ + CI + FF + ST

EER Site ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 4 with 0% Feed Reduction									Model Group No.	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	THC	CO	D/F		
209	INC	WHB/FF/VQ/PT/DM	0	0	0	0	0	95	25	82	75	52	Add AB + WQ + PT
210	INC	FF/S	0	0	50	75	26	0	0	0	25	3	Moderate DOM on WS + Add RH + CI + FF
211	INC	SS/PT/VS	50	0	75	50	0	88	0	0	0	13	Add RH + CI + FF + PT
212	INC	FF/S	75	36	0	0	71	0	0	0	0	7	Moderate DOM on FF and WS
214	INC	IWS	97	35	92	47	0	25	0	0	0	29	Small DOM on IWS + Add RH + CI + FF
216	INC	HES/WS	76	50	92	39	0	0	75	0	0	25	Add AB + RH + CI + FF
221	INC	PT	40	0	0	0	0	84	0	0	52	13	Add RH + CI + FF + PT
222	INC	WHB/SD/ESP/Q/PBS	50	0	0	0	0	0	0	0	83	8	Add CI
229	INC	WHB/ACS/HCS/CS	75	21	0	0	71	75	0	75	96	43	Add AB + RH + CB + IWS
324	INC	?	50	0	91	28	76	0	0	0	75	13	Add RH + CI + FF + PT
325	INC	SD/FF/WS/IWS	83	0	32	0	0	75	0	0	0	15	Moderate DOM on FF + Add CI + PT
327	INC	SD/FF/WS/ESP	99	0	0	0	0	0	4	0	99	53	Moderate DOM on comb. + Add CI
329	INC	PT/IWS	75	51	75	75	0	0	0	0	50	9	Add RH + CI + FF
330	INC	QT/WS/DM	4	64	82	0	51	0	50	0	99	56	Moderate DOM on comb. and WS + Add RH + CI + FF
331	INC	PT/IWS	89	0	98	0	75	75	0	0	0	13	Add RH + CI + FF + PT
332	INC	WS	25	87	0	0	35	95	0	90	75	39	Add AB + RH + CI + FF + PT
333	INC	SD/FF	0	0	0	50	57	0	0	0	0	14	Moderate DOM on SD and FF
334	INC	WS/ESP/PT	16	73	99	84	0	0	0	33	89	54	Moderate DOM on comb. + Add RH + CI + FF
337	INC	WHB/DA/DI/FF	97	0	27	64	0	80	0	0	0	15	Moderate DOM on FF + Add CI + PT
338	INC	QC/FF/SS/C/HES/DM	92	0	0	0	0	0	0	0	0	8	Add CI
339	INC	AT/PT/RJS/ESP	75	0	50	0	0	0	0	0	0	28	Moderate DOM on ESP + Add RH + CB
340	INC	WHB/ESP/WS	51	0	0	0	0	75	0	0	75	20	Add WQ + CI + PT
341	INC	DA/DI/FF/HEPA/CA	0	0	0	0	0	0	50	13	50	53	Moderate DOM on comb. + Add CI
342	INC	WHB/QC/S/VS/DM	25	0	0	0	0	75	0	0	0	40	Add RH + CB + PT
344	INC	QC/VS/PT/DM	50	0	0	0	0	0	0	0	25	9	Add RH + CI + FF
346	INC	C/QC/VS/PT/DM	0	0	33	0	0	75	0	0	0	16	Moderate DOM on VS + Add PT
347	INC	C/QC/VS/S/DM	3	0	0	0	0	0	0	0	0	9	Add RH + CI + FF
348	INC	QC/AS/IWS	75	0	0	0	0	0	0	0	75	32	Add RH + CB
349	INC	QC/FF/QC/PT	0	0	0	75	50	75	0	0	0	4	Add IWS
350	INC	WHB/HE/FF	0	0	75	50	0	0	0	0	0	6	Add FF
351	INC	GC/C/FF	50	0	0	0	0	75	0	32	50	46	Moderate DOM on comb. + Add CI + PT
353	INC	QC/VS/DM/ESP	0	31	40	33	0	0	0	0	0	17	Moderate DOM on ESP
354	INC	QC/AS/VS/DM/IWS	0	0	0	0	0	14	0	0	0	18	Small DOM on WS
356	INC	QC/AS/FN/DM	75	52	0	0	0	75	25	0	75	24	Moderate DOM on comb. + Add RH + CI + FF + PT
357	INC	QC/VS/PT/IWS	75	39	75	0	0	0	75	0	0	25	Add AB + RH + CI + FF
358	INC	QC/VS/C/CT/S/DM	50	53	50	0	0	75	0	0	0	13	Add RH + CI + FF + PT
359	INC	WHB/FF/S	75	20	88	100	0	0	0	50	0	54	Moderate DOM on comb. + Add RH + CI + FF
400	INC	SD/FF	69	0	92	28	0	75	50	0	50	38	Moderate DOM on comb. + Add CI + IWS
500	INC	QC/VS/KOV/DM	0	0	0	0	0	89	0	75	0	57	Add AB + PT
502	INC	WHB/QC/PBC/VS/ES	50	57	95	0	0	0	0	50	0	54	Moderate DOM on comb. + Add RH + CI + FF
503	INC	HTHE/LTHE/FF	68	43	92	81	0	75	0	50	75	38	Moderate DOM on comb. + Add CI + IWS
504	INC	VS/C	100	17	0	47	0	0	0	0	0	9	Add RH + CI + FF
600	INC	WHB/QC/PT/IWS	25	0	0	50	0	75	0	0	0	13	Add RH + CI + FF + PT
700	INC	SD/RJS/VS/WS	0	65	100	89	0	0	0	0	0	6	Add FF
701	INC	VS/PT	75	65	0	75	0	0	0	0	50	9	Add RH + CI + FF
702	INC	QT/S/C	0	82	75	0	0	75	0	0	75	13	Add RH + CI + FF + PT
703	INC	WHB	75	0	0	0	92	0	0	0	0	20	Add WQ + CB + PT
704	INC	NONE	25	23	0	0	84	75	0	0	0	41	Add WQ + CI + FF + PT
705	INC	QT/VS/ESP/PT	61	44	65	33	0	0	0	0	75	9	Add RH + CI + FF
706	INC	QT/HS/C	75	65	0	0	0	75	4	0	0	24	Moderate DOM on comb. + Add RH + CI + FF + PT
707	INC	QT/WS	0	63	75	0	0	0	0	99	50	25	Add AB + RH + CI + FF
708	INC	WS/ESP	0	40	0	50	0	75	0	0	75	13	Add RH + CI + FF + PT
709	INC	NONE	50	63	0	0	0	0	0	0	0	10	Add WQ + CB + FF
710	INC	QT/OS/C/S	50	46	75	0	72	99	61	0	0	24	Moderate DOM on comb. + Add RH + CI + FF + PT
711	INC	C/VS/AS	25	48	0	0	0	75	50	0	75	24	Moderate DOM on comb. + Add RH + CI + FF + PT
712	INC	NONE	0	31	0	0	0	0	0	0	0	6	Add FF
713	INC	VS/PT	75	78	50	0	4	75	0	0	75	13	Add RH + CI + FF + PT

TABLE C-15B. MODEL GROUP SELECTION FOR OPTION 4A WITH 0% FEED REDUCTION

EER Site ID No.	Type	Current APCS	% Emission Reduction Required to Meet Option 4 with 0% Feed Reduction									Model Group No.	Required Retrofit Flue Gas Control
			Hg	PM	SVM	LVM	HCl	Cl2	THC	CO	D/F		
714	INC	WS	0	18	75	0	50	0	0	0	50	3	Moderate DOM on WS + Add RH + CI + FF
725	INC	WS/QT	0	25	0	0	0	98	0	0	4	13	Add RH + CI + FF + PT
726	INC	QC/CS/DM/VS	75	0	75	75	0	75	66	0	0	24	Moderate DOM on comb. + Add RH + CI + FF + PT
727	INC	GC/C/FF	0	82	75	50	0	0	97	98	0	21	Add AB + FF
728	INC	QT/PT/VS	0	65	0	0	0	75	0	0	75	37	Moderate DOM on VS + Add RH + CB + PT
784	INC	NONE	0	63	75	50	97	0	0	0	0	4	Add IWS
805	INC	QT/QS/VS/ES/PBS	0	73	0	0	50	80	0	85	75	39	Add AB + RH + CI + FF + PT
806	INC	C/VS	97	66	89	0	44	75	67	75	0	39	Add AB + RH + CI + FF + PT
807	INC	C/WHB/VQ/PT/HS/DM	56	39	66	53	0	0	0	0	43	9	Add RH + CI + FF
808	INC	QT/PBS/ESP	25	0	75	50	0	0	0	2	0	54	Moderate DOM on comb. + Add RH + CI + FF
809	INC	VS	50	0	99	98	0	75	0	96	75	39	Add AB + RH + CI + FF + PT
810	INC	Q/VS/PBS	75	0	96	87	0	0	0	0	0	9	Add RH + CI + FF
824	INC	QT/VS/PT/DM	0	0	0	30	0	75	0	0	0	16	Moderate DOM on VS + Add PT
825	INC	CCS/QC/ESP	50	80	0	0	0	0	0	75	50	25	Add AB + RH + CI + FF
902	INC	QT/VS/PT	89	28	0	0	0	0	0	0	0	9	Add RH + CI + FF
904	INC	?	0	0	75	0	0	0	35	0	0	55	Moderate DOM comb. + Add FF
905	INC	QT/VS/AS/CS	0	0	100	57	0	0	0	0	25	9	Add RH + CI + FF
906	INC	QT/PT	75	78	50	75	82	25	0	0	75	42	Add RH + CB + IWS
914	INC	?	0	0	0	50	75	94	75	0	95	39	Add AB + RH + CI + FF + PT
915	INC	QC/VS/C	75	73	95	88	50	0	77	92	53	39	Add AB + RH + CI + FF + PT

TABLE C-15c. CHARACTERIZATION OF MODEL PLANTS, OPTION 4, 0% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate (acfm)	Equivalent HCl Conc (ppm)
CK	Group 12	Add AB + CI + FF + WQ	2	200 *	S	Giant	FF	123,584	147,000	
			1	207 *	S	Keystone	MC/ESP	90,681	147,000	
			1	228 *	S	Ash Grove	ESP	148,537	147,000	
			2	300 *	S	Essroc	ESP	164,692	147,000	
			1	301 *	S	Essroc	FF	185,409	147,000	
			2	302 *	S	Lafarge	ESP	130,576	147,000	
			3	308 *	S	North Texas	ESP	162,599	147,000	
			1	315 *	S	Southdown	FF	102,042	147,000	
			4	318 *	S	Texas Industries	ESP	152,675	147,000	
			1	401	S	Ash Grove	ESP	172,481	147,000	
			1	403	S	Ash Grove	ESP	184,877	147,000	
			1	405 *	S	Ash Grove	ESP	194,905	147,000	
			1	202 *	L	Heartland	FF	221,421	370,000	
			1	204 *	L	Holnam	ESP	693,613	370,000	
			1	205	L	Holnam	ESP	253,556	370,000	
			1	208 *	L	Keystone	ESP	307,644	370,000	
			1	303	L	Lone Star	MC/FF	408,681	370,000	
			1	304 *	L	Lone Star	ESP	300,367	370,000	
			1	306 *	L	National	MC/FF	280,868	370,000	
			1	309	L	River Cement	MC/ESP	665,839	370,000	
			1	316 *	L	Southdown	FF	nr	370,000	
			1	317	L	Southdown	FF	422,190	370,000	
	Group 13	Add AB + CI + FF + PT + WQ	2	305	S	Medusa	ESP	196,903	147,000	85
			1	321	S	Lafarge	ESP	59,542	147,000	85
			1	323	S	Lafarge	FF	185,409	147,000	85
			1	335	S	Medusa	ESP	100,378	147,000	85
			1	402	S	Ash Grove	ESP	187,605	147,000	85
			1	203	L	Holnam	ESP	291,645	370,000	85
			1	206	L	Holnam	ESP	348,510	370,000	85
			1	319	L	Continental	ESP	344,250	370,000	85
			3	320 *	L	Lafarge	FF	nr	370,000	85
	Group 24	Add AB + FF + WQ	2	201 *	S	Giant	FF	137,945	147,000	
	Group 26	Add AB + IWS + WQ	1	404	L	Ash Grove	ESP	265,721	370,000	85
	Group 27	Moderate DOM on ESP + Add AB + WQ	1	322	S	Lafarge	ESP	112,269	147,000	
LWAK	Group 9	Add AB + CI + FF + WQ	1	224	M	Solite	FF	39,049	40,500	
			2	307	M	Norlite	FF/VS	49,050	40,500	
	Group 11	Add AB + CI + FF + ST + WQ	1	223 *	M (hi HCl)	Solite	FF	29,092	40,500	1,570
			1	227	M (hi HCl)	Solite	FF	38,796	40,500	1,570
			1	311 *	M (hi HCl)	Solite	FF	51,627	40,500	1,570
LWAK (cont.)			1	312 *	M (hi HCl)	Solite	FF	47,698	40,500	1,570
			1	226 *	M (lo HCl)	Solite	FF	nr	40,500	875
			1	310 *	M (lo HCl)	Solite	FF	47,770	40,500	875
			1	314 *	M (lo HCl)	Solite	FF	36,793	40,500	875
			1	336 *	M (lo HCl)	Solite	FF	30,336	40,500	875
	Group 13	Add AB + IWS + WQ	1	313 *	M (hi HCl)	Solite	FF	36,793	40,500	1,570
	Group 14	Add AB + ST + WQ	1	225 *	M (lo HCl)	Solite	FF	38,270	40,500	875
INC	Group 3	Moderate DOM on WS + Add CI + FF + RH	2	714 *		Olnin Chemical	WS	19,185	22,100	
			1	210 *	L	LWD	FF/S	96,107	60,800	

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
	Group 4	Add IWS	2	349 *	S	Radford Army Ammo Plant	QC/FF/QC/PT	5,653	3,900	92
			1	784	S	Cook Composites	NONE	nr	3,900	92
	Group 6	Add FF	1	350 *	M	Dupont	WHB/HE/FF	15,883	22,100	
			1	700	M	Dupont	SD/RJS/VS/WS	30,185	22,100	
			1	712	L	Nepera	NONE	65,256	60,800	
	Group 7	Moderate DOM on FF and WS	1	212 *	L	LWD	FF/S	44,610	60,800	
	Group 8	Add CI	1	222	L	WTI	WHB/SD/ESP/Q/PBS	93,718	60,800	
			1	338	L	Dupont	QC/FF/SS/C/HES/DM	65,598	60,800	
	Group 9	Add CI + FF + RH	1	905	S	Velsicol Chemical	QT/VS/AS/CS	nr	3,900	
			1	344 *	M	Department of Army	QC/VS/PT/DM	13,886	22,100	
			1	347	M	Department of Army	C/QC/VS/S/DM	10,795	22,100	
			1	504	M	Chevron Chemical	VS/C	32,804	22,100	
			1	701 *	M	Eli Lilly	VS/PT	9,208	22,100	
			1	705	M	Ciba-Geigy	QT/VS/ESP/PT	36,116	22,100	
			1	807	M	Bros Lagoon Site	C/WHB/VQ/PT/HS/DM	34,109	22,100	
			1	810 *	M	Tennessee Eastman	Q/VS/PBS	28,434	22,100	
			1	902	M	Rocky Mountain Arsenal	QT/VS/PT	25,436	22,100	
			1	329 *	L	Dupont	PT/IWS	53,489	60,800	
	Group 10	Add CB + FF + WQ	1	709 *	S	Cargill Chemical	NONE	3,123	3,900	
	Group 13	Add CI + FF + PT + RH	1	708 *	S	Burroughs Wellcome	WS/ESP	3,687	3,900	92
			1	713 *	S	Pfizer	VS/PT	2,625	3,900	92
			1	725 *	S	Zeneca	WS/QT	1,489	3,900	92
			1	324 *	M	Allied	?	12,120	22,100	92
			1	358 *	M	Eli Lilly	QC/VS/C/CT/S/DM	14,406	22,100	92
			1	702 *	M	Dupont	QT/S/C	nr	22,100	92
			1	211 *	L	LWD	SS/PT/VS	43,596	60,800	92
INC (cont.)			1	221	L	Rollins	PT	51,114	60,800	92
			1	331 *	L	Ross	PT/IWS	44,379	60,800	92
			1	600 *	L	Dow Chemical	WHB/QC/PT/IWS	43,839	60,800	92
	Group 14	Moderate DOM on SD and FF	1	333 *	L	Trade Waste	SD/FF	42,042	60,800	
	Group 15	Moderate DOM on FF + Add CI + PT	1	325 *	M	Aptus	SD/FF/WS/IWS	23,127	22,100	92
			2	337	M	Olin Chemical	WHB/DA/DI/FF	13,807	22,100	92
	Group 16	Moderate DOM on VS + Add PT	1	824 *	S	Pennwalt	QT/VS/PT/DM	1,086	3,900	92
			1	346 *	M	Department of Army	C/QC/VS/PT/DM	21,812	22,100	92
	Group 17	Moderate DOM on ESP	1	353	M	Dow Chemical	QC/VS/DM/ESP	nr	22,100	
	Group 18	Small DOM on WS	1	354	M	Dow Chemical	QC/AS/VS/DM/IWS	27,383	22,100	
	Group 20	Add CB + PT + WQ	1	703 *	S	Aristech	WHB	1,873	3,900	92
			1	340 *	M	Miles	WHB/ESP/WS	16,003	22,100	92
	Group 21	Add AB + FF	1	727	S	Iowa Army Ammo Plant	GC/C/FF	3,043	3,900	
	Group 24	Moderate DOM on comb. + Add CI + FF + PT + RH	1	356 *	S	Dupont	QC/AS/FN/DM	5,100	3,900	92
			1	726 *	S	Shell Oil	QC/CS/DM/VS	3,669	3,900	92
			1	706 *	M	Ciba-Geigy	QT/HS/C	nr	22,100	92
			1	710 *	M	Dupont	QT/OS/C/S	nr	22,100	92

TABLE C-15c. CHARACTERIZATION OF MODEL PLANTS, OPTION 4, 0% FEED CONTROL

Source Group	Model Plant Number	Required Equipment	Report Ratio**	Site ID	Size Category	Facility Name	Existing APCD	Flue gas Flowrate (acfm)	Assigned Flue Gas Flowrate	Equivalent HCl Conc (ppm)
			1	711 *	L	Chevron Chemical	C/VS/AS	52,907	60,800	92
	Group 25	Add AB + CI + FF + RH	1	357 *	M	Department of Energy	QC/VS/PT/IWS	20,778	22,100	
			1	825 *	M	General Electric	CCS/QC/ESP	21,363	22,100	
			1	216 *	L	Rollins	HES/WS	40,002	60,800	
			1	707 *	L	Dupont	QT/WS	58,120	60,800	
	Group 28	Moderate DOM on ESP + Add CB + RH	1	339 *	S	Dupont	AT/PT/RJS/ESP	6,263	3,900	
	Group 29	Small DOM on IWS + Add CI + FF + RH	1	214 *	M	Rollins	IWS	34,655	22,100	
	Group 32	Add CB + RH	1	348 *	S	Occidental Chemical	QC/AS/IWS	nr	3,900	
	Group 37	Moderate DOM on VS + Add CB + PT + RH	1	728 *	S	Eli Lilly	QT/PT/VS	5,819	3,900	92
	Group 38	Moderate DOM on comb. + Add CI + IWS	1	503 *	S	Lake City Army Ammo Plant	HTHE/LTHE/FF	4,747	3,900	92
			1	400 *	L	Marine Shale	SD/FF	179,333	60,800	92
	Group 39	Add AB + CI + FF + PT + RH	1	332 *	M	Thermalkem	WS	20,208	22,100	92
			1	805 *	M	American Cyanamid	QT/QS/VS/ES/PBS	31,943	22,100	92
			1	806	M	Amoco Oil	C/VS	20,641	22,100	92
			1	914 *	M	Vertac Superfund	?	25,849	22,100	92
			1	915 *	M	Eastman Kodak	QC/VS/C	nr	22,100	
INC			1	809 *	L	Tennessee Eastman	VS	40,524	60,800	92
(cont.)	Group 40	Add CB + PT + RH	1	342 *	S	Upjohn	WHB/QC/S/VS/DM	5,640	3,900	92
	Group 41	Add CI + FF + PT + WQ	1	704 *	S	Ashland	NONE	5,011	3,900	92
	Group 42	Add CB + IWS + RH	1	906 *	S	Monsanto	QT/PT	2,738	3,900	92
	Group 43	Add AB + CB + IWS + RH	1	229 *	S	Vulcan Materials	WHB/ACS/HCS/CS	1,171	3,900	92
	Group 46	Moderate DOM on comb. + Add CI + PT	1	351 *	S	Iowa Army Ammo Plant	GC/C/FF	3,457	3,900	92
	Group 52	Add AB + PT + WQ	1	209 *	M	Laidlaw	WHB/FF/VQ/PT/DM	21,716	22,100	92
	Group 53	Moderate DOM on comb. + Add CI	1	341 *	M	Glaxo	DA/DI/FF/HEPA/CA	nr	22,100	
			1	327 *	L	Aptus	SD/FF/WS/ESP	49,572	60,800	
	Group 54	Moderate DOM on comb. + Add CI + FF + RH	1	502 *	S	Pfizer	WHB/QC/PBC/VS/ES	6,647	3,900	
			1	359 *	M	Atochem	WHB/FF/S	13,802	22,100	
			1	808 *	M	Dow Chemical	QT/PBS/ESP	35,720	22,100	
			1	334	L	3M	WS/ESP/PT	40,599	60,800	
	Group 55	Moderate DOM comb. + Add FF	1	904 *	S	First Chemical	?	5,950	3,900	
	Group 56	Moderate DOM on comb. and WS + Add CI + FF + RH	1	330 *	M	General Electric	QT/WS/DM	10,345	22,100	
	Group 57	Add AB + PT	1	500 *	L	Chevron	QC/VS/KOV/DM	49,822	60,800	92

* Facility has been assigned to model group based on assumed emission level. Facility did not report the necessary emission value, therefore one was assigned based on the distribution of reported values from other facilities.

** Reported Ratio is equal to the number of total units located at a site divided by the number of units for which information was reported.

Often a facility will report data for only one unit even when the facility has two or three units at the particular site, since the single reported unit can be considered as representative of the other nonreported units.

nr = not reported

TABLE 62. Cost Estimates for ATF model Plants, Option 4, 0% Feed Control

Source Group	Model Plant Number	Size Category	Required Equipment	Total Number of Units	Capital Cost	Annualized O&M Cost	Annualized Total Cost
CK	Group 12	S	Add Q, CI, FF, AB	20	$3,825K	$4,318K	$4,781K
		L		10	$7,437K	$10,098K	$10,980K
	Group 13	S	Add Q, CI, FF, AB, PT	6	$4,726K	$4,648K	$5,258K
		L		6	$9,371K	$10,782K	$11,979K
	Group 24	S	Add AB, Q, FF	2	$3,354K	$3,954K	$4,356K
	Group 26	L	Add AB, Q, IWS	1	$6,189K	$9,355K	$10,306K
	Group 27	S	Moderate DOM on existing ESP, Add AB, Q	1	$2,971K	$3,749K	$4,139K
LWAK	Group 9	M	Add AB, Q, CI, FF	3	$1,883K	$1,615K	$1,850K
	Group 11	M (hi HCl)	Add AB, Q, CI, FF, ST	4	$3,112K	$1,944K	$2,380K
		M (lo HCl)		4	$3,112K	$1,876K	$2,311K
	Group 13	M (hi HCl)	Add AB, IWS	1	$1,825K	$1,946K	$2,218K
	Group 14	M (lo HCl)	Add AB, Q, ST	1	$2,038K	$1,525K	$1,832K
Incinerators	Group 3	M	DOM WS mod, Add RH,CI/CB,FF	2	$1,004K	$405K	$541K
		L		1	$1,876K	$712K	$968K
	Group 4	S	Add IWS	3	$215K	$97K	$132K
	Group 6	M	Add FF	2	$295K	$121K	$154K
		L		1	$943K	$198K	$305K
	Group 7	L	DOM FF mod, DOM WS mod	1	$247K	$58K	$111K
	Group 8	L	Add CI/CB	2	$425K	$224K	$280K
	Group 9	S	Add RH, CI/CB, FF	1	$575K	$241K	$315K
		M		8	$932K	$391K	$508K
		L		1	$1,681K	$672K	$876K
	Group 10	S	Add Q,CI/CB,FF	1	$643K	$221K	$304K
	Group 13	S	Add PT, RH, CI/CB, FF	3	$632K	$331K	$414K
		M		3	$1,137K	$515K	$665K
		L		4	$2,126K	$866K	$1,143K
	Group 14	L	DOM SD mod, DOM FF mod	1	$587K	$74K	$162K
	Group 15	M	DOM FF mod, Add CI/CB, PT	3	$620K	$278K	$364K
	Group 16	S	DOM VS mod, Add PT	1	$68K	$96K	$109K
		M		1	$250K	$159K	$205K

	Group 17	M	DOM ESP mod	1	$535K	$50K	$120K
	Group 18	M	DOM WS small	1	$40K	$13K	$20K
	Group 20	S	Add Q,CI/CB,PT	1	$619K	$222K	$305K
		M		1	$879K	$319K	$441K
	Group 21	S	Add AB, FF	1	$347K	$282K	$326K
	Group 24	S	DOM combustor, Add PT,RH,CI/CB,FF	2	$749K	$331K	$433K
		M		2	$1,291K	$515K	$690K
		L		1	$2,312K	$866K	$1,173K
	Group 25	M	Add AB,RH,CI/CB,FF	2	$1,349K	$924K	$1,096K
		L		2	$2,223K	$1,947K	$2,223K
	Group 28	S	DOM ESP mod, Add RH,CI/CB	1	$673K	$178K	$267K
	Group 29	M	DOM IWS small, Add RH,CI/CB,FF	1	$972K	$403K	$528K
	Group 32	S	Add RH, CB/CI	1	$493K	$152K	$216K
	Group 37	S	Moderate DOM on existng VS, Add RH, CI/CB, PT	1	$561K	$248K	$326K
Incinerators	Group 38	S	Moderate DOM on Combustor, Add CI/CB, IWS	1	$672K	$188K	$287K
(cont.)		L		1	$1,941K	$452K	$755K
	Group 39	M	Add RH, CI/CB, FF, PT, AB	5	$1,554K	$1,048K	$1,253K
		L		1	$2,669K	$2,142K	$2,490K
	Group 40	S	Add RH, CI/CB, PT	1	$550K	$242K	$316K
	Group 41	S	Add Q, CI/CB, FF, PT	1	$700K	$311K	$403K
	Group 42	S	Add RH, CI/CB, IWS	1	$708K	$249K	$348K
	Group 43	S	Add RH, CI/CB, IWS, AB	1	$973K	$441K	$576K
	Group 46	S	Moderate DOM on Combustor, Add CI/CB, PT	1	$514K	$181K	$254K
	Group 52	M	Add AB, Q, PT	1	$899K	$706K	$830K
	Group 53	M	Moderate DOM on Combustor, Add CI/CB	1	$551K	$147K	$225K
		L		1	$610K	$224K	$310K
	Group 54	S	Moderate DOM on Combustor, Add RH, CI/CB, FF	1	$691K	$241K	$334K
		M		2	$1,087K	$391K	$533K
		L		1	$1,866K	$672K	$906K
	Group 55	S	Moderate DOM on Combustor, Add FF	1	$198K	$89K	$117K
	Group 56	M	Moderate DOM on WS, Combustor, Add RH, CI/CB, FF	1	$1,158K	$405K	$566K
	Group 57	L	Add AB, PT	1	$988K	$1,470K	$1,614K