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FROM

KEVIN ROLAN
CONSTRUCTION DIVISION
ROCKDALE CONSTRUCTION

TO

MEMORANDUM

1989 April 24

RE: PLANTWIDE ASBESTOS SURVEY RESULTS

Attached are the results of a ~~Plantwide asbestos survey~~ conducted ~~1989~~ January through ~~1989~~ March by Kevin Rolan, Alcoa Construction which includes the following:

1. Removal priority groupings of individual buildings, areas, quantity of asbestos containing materials (ACM) and estimated costs for removal and reinsulation. Removal priorities are defined below.

ASBESTOS REMOVAL PRIORITIES

Priority "A"

~~Immediate Removal Required~~

1. High Exposure Area
2. Damaged or Friable Materials
3. Maintenance or Project Related

Priority "B"

~~Removal Within Two (2) Years~~

1. ACM secure; Encapsulated or Non-Friable

Priority "C"

~~Indefinite Removal Required~~

1. ACM Inaccessible/Secured

2. Plant map with plan view of existing steam, water, and electrical systems which contain ACM's.
3. Detailed drawings of individual buildings and areas (where available) containing ACM as marked on drawings.

Kevin Rolan

KEVIN ROLAN

KR:lc

Attachments

cc: T.J. Hormuth
R.E. Clark
E.B. Parker

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ARD 004350

SP-4802 (REV 11-88)

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ASBESTOS SURVEY SUMMARY - PRIORITY "A" REMOVAL

<u>BLDG #</u>	<u>AREA</u>	<u>APPROX L.F.</u>	<u>EST. COST (1)</u>
4A-6A	Potroom Restroom	176	\$ 6,330
5F	Potroom Lunch/Restroom	25	598
4B-6B	Potroom Restroom	176	6,354
8A-10A	Potroom Restroom	176	6,330
9F	Potroom Lunch/Restroom	25	598
8B-10B	Potroom Restroom	176	6,354
12A-14A	Potroom Restroom	176	6,330
13F	Potroom Lunch/Restroom	25	598
12B-14B	Potroom Restroom	176	6,354
16A-18A	Potroom Restroom	176	6,330
17F	Potroom Restroom/Lunch	25	598
16B-18B	Potroom Restroom	176	6,354
20A-22A	Potroom Restroom	176	6,340
21F	Lunch/Restroom	25	598
20B-22B	Restroom	176	6,344
24A-26A	Restroom	176	6,340
25F	Lunchroom	25	582
24B-26B	Restroom	176	6,372
35	Shower	600	11,617
45	Storeroom	500	11,561
47	Carpenter Shop	600	17,229
48	Paint/Pipe Shop	180	7,409
48-52 Ctyd	Courtyard Area	200	11,220
49	Shower	300	5,616
50	Shower	300	7,134
APPROXIMATE TOTAL		5,000 LF	\$ 151,490

(1) Cost includes ACM removal and reinsulation.

ARD 004351

ASBESTOS SURVEY SUMMARY - PRIORITY "B" REMOVAL

<u>BLDG #</u>	<u>SYSTEM</u>	<u>APPROX L.F.</u>	<u>EST. COST (1)</u>
1	Rectifier	100	\$ 2,281
32	Rod Room	1,500	40,359
32-45(Ext)	Exterior Pipe	1,000	28,003
34	Ingot	100	2,347
34-1	Passageway	340	11,856
44	Maintenance Shop	800	22,786
51	Electrical Shop	200	5,597
52	Coke/Pitch	200	9,034
54	Carbon Press	350	9,083
56	Carbon Handling	800	20,133
58	Carbon Handling	500	12,152
59	Carbon Handling	300	9,681
60	SPL Storage	150	5,501
64	Storeroom	500	19,460
66	Boiler Room	300	11,855
West Passage	-----	165	3,648
APPROXIMATE TOTAL		7,500 LF	\$ 212,866

(1) Cost includes ACM removal and reinsulation.

ARD 004352

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ASBESTOS SURVEY SUMMARY

RE: "FLAMASTIC" TYPE FIRE RETARDING INSULATION

PRIORITY "C" REMOVAL

The following buildings are electrical control buildings which contain "Flamastic" brand type of asbestos laden fire retarding insulation. The following listing is considered a priority "c" removal due to condition of insulation and outage requirements needed for removal.

<u>BLDG #</u>	<u>SYSTEM</u>	<u>APPROX L.F.</u>	<u>EST. COST (2)</u>
19X	A-398's	90	\$ 26,231
23F	Potrooms	30	13,115
32X	Rod Room	285	58,325
52X	Green Mill Area	200	50,302
58X	Ring Groover	100	44,438
59X	Carbon Transfer	50	12,035
93X	Mill Water System	80	17,899
160X	Carbon Bake	125	16,510
161A	Line 7 A-398	125	30,242
161B	Line 7 A-398	125	27,003
162X	Carbon Bake	75	45,210
163A	Line 8 A-398	125	30,242
163B	Line 8 A-398	125	26,231

TOTAL

\$ 397,783

APPROXIMATE TOTAL

1,500 LF of Asbestos
Containing Mat.

(2) Cost includes ACM removal only.

ARD 004353

ASBESTOS SURVEY SUMMARY - PRIORITY "C" REMOVAL

<u>BLDG #</u>	<u>SYSTEM</u>	<u>APPROX L.F.</u>	<u>EST. COST (1)</u>
33		N/A	NO DRAWINGS
80	A/C & Piping	(422 CF)-800	90,394
81		N/A	
	APPROXIMATE TOTAL	800 LF	90,394

(1) Cost includes ACM removal and reinsulation.

DATA/COST SUMMARY

	<u>APPROXIMATE QUANTITY ACM</u>	<u>ESTIMATE COSTS</u>
Removal Priority "A"	5,000 L.F.	\$ 151,490
Removal Priority "B"	7,500 L.F.	\$ 212,866
Removal Priority "C"	1,000 L.F.	\$ 90,394
Removal Priority "C" ("Flamastic" ACM)	1,500 L.F.	\$ 397,783
	TOTAL ESTIMATE COSTS	\$ 852,533

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ARD 004355