PLAINTIFF'S
EXHIBIT
AL-1736

FROM PLANT SAFETY & HEALTH STEERING COMMITTEE TO MEMORANDUM

ROCKDALE WORKS

1978 September 27 SEP 29 1978

RE: PLANT SAFETY AND HEALTH STEERING COMMITTEE MEETING MINUTES

Date, Time, Place 1978 September 24, 2:00-4:00 p.m.,Bldg. 80, Room 138

In Attendance: J. C. Morgan,E. J. Gaas, Weldon Henson, Ted Randall, Thomas Williams, Ike Korenek, Finis Black, H. P. Dick, Terry Stuller, and H. N. Mueller

An updated safety and health projects list is attached.

Copies of plantwide vehicle rules were given to all members present. Committee members were asked to read these rules, discuss them with others and return them with comments on or before 1978 October 5 to J. J. Congleton's office.

The next meeting will be on October 19 at 2:00 p.m., Bldg. 80, Room 138.

H. N. MUELLER

HNM:cw
Attachment

Copy - Plant Safety and Health Steering Committee
F. P. Bergeron/W. J. Drake
Managers
Department Heads
Superintendents
J. R. Archibald, Pittsburgh
T. B. Bonney, Pittsburgh
B. D. Dinman, M.D., Pittsburgh
C. E. Magee, USWA, Rockdale

ARD 001797

ALCOA

SF-4563 (REV 11-68)

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(1) Carbon monoxide alarm not installed for plant air compressors that are used sometimes for breathing air	Total Plant	W. B. Howell	1. Installation for monitoring only - complete 1978-02-03. 2. Have experienced problems with instrument calibration; frequency of false alarms has been reduced to one in 12 weeks. 3. Installation for compressor shutdown delayed. Alternative is to install alarms in guardhouse and have guards notify people using compressed air for breathing in case of an alarm. To be resolved by August 11.
(2) Pot tenders eating their lunch in potrooms (exposure to fluorides through ingestion)	Potrooms	H. McLaughlin/ C. Efird T. Boswell	1. Proposal for upgrading lunchrooms reviewed with potroom people and janitors by 78-01-30 - complete. 2. RFA for upgrading lunchrooms has been approved. 3. Project to be complete 78-12-31.
(3) Coal tar pitch volatiles exposure (Carbon Plant)	Mixer Floor	Jerry Mitchell E. B. Parker	1. Provide respirators - complete 2. Respirator training - complete 3. Implement respirator program-complete 4. Mixer door project to be complete by 1978-09-15. 5. Compliance testing to be complete by 1978-09-30 and results obtained by 1978-10-27. 6. Replacement of batch cars with screw conveyors to be complete 1979 March.
	Press Room	E. B. Parker	1. Compliance testing of modified lube system-complete. Results still indicate overexposure. Respirator usage made mandatory for press operators. 2. Area has been retested and sample sent to ATC. Results expected mid-August.

ARD 001798

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
	Furnace Room	E. B. Parker	1. OSHA samples indicated compliance. Alcoa Samples showed borderline results. Should be retested after conditions stabilize. Retesting scheduled week of 1978-08-14
(4) Fluoride exposure	Potrooms	H. McLaughlin/ C. Efird	1. Proper respirators provided and people trained-complete. (Results of OSHA tests indicated compliance. Mandatory respirator use not indicated.) 2. Evaluation of experimental Rockdale covers in progress. Look good so far. Considering expanding test to all of Room 6.
(5) Excessive noise	Rodding Room	G. G. Blagg	1. Rodding room modernization complete. Survey to be complete 78-06-29. Money for noise control included in clean-up RFA.
(6) Excessive noise	Ingot Plant	T. J. Randall	1. Evaluation of muffled filter box burners completed at ATC. Sample mufflers to be shipped to Rockdale for evaluation. Evaluation at Rockdale complete. Mufflers effective but overly expensive. ATC redesigning. 2. Relocation of whistle at No.3 DC complete. 3. Modification of operator cubicle at No.3 DC to provide sound damping appears feasible. However, muffling filter box burners is a more satisfactory way of reducing noise exposure. No decision as of 78-06-29.

ARD 001799

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
			4. Noise level survey completed week of July 24. Results showed noticeable improvements. Dosimeter survey will be scheduled in 1978 August.
(7) Dust from coke blasting flexible riser bus connections	Potrooms	M. Kassing I. Korenek	1. Pangborn refused to quote on blast enclosure. Process Equipment Division has been asked for help.
(8)) Dust from ore bucket filling	Potrooms	B. Hartman	1. Install covered and vented ore bucket filling stations. Line 6 - Complete except for minor revisions to prevent bucket overfilling. Line 1 (Rm.4) - Complete except for fabrication of ore bucket cover. Balance of Lines 1-4 - Authorization approved and material ordered - to be complete first quarter, 1979. 2. Improve venting in Lines 7 and 8 to be complete 1978 August. Material fabricated and awaiting installation.
(9) Dust from ore bin filling	Potrooms	B. Hartman	1. Practice and equipment review: A. Bucket dump gates have been checked and repaired. B. Importance of not overfilling bins has been stressed to crane operators. Some improvement, but leaking gates still a problem. 2. Design for improved dump gate to be started a Pittsburgh Engineering in 1979 January. It is a Company-wide problem- schedule of work is being developed in Pittsburgh. Prototype of new bucket to be tested at Badin. 3. Shop order for improved ore blending device (to minimize slugs of fine material in ore stream) has been approved. Project to be complete end of 1978 August.

ARD 001800

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(10) Dusting at ore unloading station	Potrooms	D. L. Smith	1. Investigate standardization of ore cars - complete. Not possible. 2. Investigate use of lean-to obtained from Pt. Comfort to place against rail car during unloading. Does not appear feasible - complete. 3. Investigate ways of keeping floor hoppers full to avoid intermittent dust clouds when opening rail car hoppers. Project is feasible, but has low priority because of low order of dust exposure. Complete. 4. Evaluate vacuum cleaning vs. sweeping in basement-complete. Dust exposure significantly reduced by vacuum cleaning. Permanent vacuum lines installed and in use. Dust leaks in duct system need attention. Necessary work tickets submitted. 5. Shop order for improved ore blending device (to minimize slugs of fine material in ore stream) has been approved. Project to be complete by end of August, 1978. 6. Respiratory protection provided and people trained - complete. 7. Investigate reducing volume of hoppers to reduce dusting when unloading into an empty hopper. Engineering assigned project on 78-07-25
(11) Dust from ore belt transfer points	Potrooms (Ore transfer system).	J. Mueller	1. Engineering project to improve dust collection in progress. Proposal to be complete and request for funds submitted by 78-05-31. Shop order approved. Material being fabricated. Installation by October, 1978.

ARD 001801

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(12) Potroom crane cab environment	Potrooms	H. N. Mueller B. Hartman	1. Catco, air-conditioned cabs, radio and pendant crane controls are bein investigated. 2. Airstream helmets are available for use by crane operators. 3. Airstream helmets with treated filter to remove fluoride gas evaluated. Found effective at gas removal but provide no relief from heat. 4. Vortex tube cooling system installe Rooms 20 and 22. Debugging in progr
(13) Dust spillage from trash screen - A398 systems and 19X tower system	Potrooms	J. Mueller	1. Several alternatives investigated. Engineering still active. No progre
(14) Dust from blowing off superstructures when slipping jacks	Potrooms	H. McLaughlin/ C. Efird E. Gaas	1. Use of 30 lb. air to blow off is most effective way of cleaning foun thus far. Effort will continue to develop method of combined sweeping and blowing. No progress.
(15) Dust from blowing off cranes in Potrooms	Potrooms	W. T. Eckert E. Gaas	1. Vacuum cleaning not satisfactory. Other methods of removing dust to b investigated. No progress.
(16) Bag changers exposed to unregenerated ore when working in A446 reactors	Carbon Plant	H. N. Mueller D. L. Smith W. G. Henson	1. Evaluation of English barrier cream complete. Found to be somewhat effective, but not a cure-all. Additional quantities ordered. 2. Evaluation of Airstream helmets complete. Found to be unsatisfactor in this application. 3. Evaluation of cool suit completed. Found to be satisfactory except for weight of the hoses-need lighter eq ment. Disposable coveralls and disp able air-supplied hoods and vests w

ARD 001802

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
			vortex tube being evaluated. Moisture in the line prevents completion of this project.
17) Housekeeping improvement program	Plant Wide	E. B. Parker J. J. Congleton Brent Lemons	1. Safety and Health Steering Committee appointed sub-committee to develop housekeeping improvement program. Sub-committee has met and prepared proposal. Educational and promotional program to be prepared by 1978 October.
18) Safety representative recognition A. Purchase safety caps B. Train safety representatives	Plant Wide Safety Representatives	J.J.Congleton	1. Safety caps-fluorescent green- received 78-07-31. Distribution complete 78-09-07. 2. J.J.Congleton to develop Safety Representatives Training Program.
19) Gasoline and diesel pump station-main entrance to plant near walkway	Plant Wide	Stan Spell John Kapustay	1. Present gasoline and diesel pump station to be reloacted.Suggested locations are: A. Vicinity of new vehicle repair shop. B. Across from Properzi building C. Northeast of Potroom Line 8 These proposals have been reviewed with R.P.McCracken,Pittsburgh Fire Protection. Review with Plant Safety and Health Steering Committee at 78-09-21 meeting. 2. In the meantime,enforcement of our present rule prohibiting tank trucks from filling the underground tank at shift change will be emphasized.

ARD 001803

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(20) Safety rule book format (needs revision)	Plant Wide	J.J.Congleton	1. After reviewing safety rule loose leaf notebook,general safety rule concept followed by departmental rules, it was agreed to pursue this format. Letters to appropriate areas of responsibility will be written and sent requesting review and submission of final safety rules for their respective areas. Estimation completion date-final form ready for printers 78-11-30. 2. Plant Safety Rules (Draft) will be sent to Plant Safety and Health Steering Committee members for review and return to J.J.Congleton. 1978-09-08
(21) Ditch Road-Detour A. Oil on roads bleeding B. Evaluate installing guard rail to prevent autos from going in lake C. Fill in holes on bypass lake road D. Dust from the bypass lake road	Plant Wide	Ross Cox	1. To investigate and take appropriate action. Report at next PS&HSC meeting. Cover roads with slag. 2. Seal the road or water both morning and afternoon
(22) Safety billboards A. Temperature hard to read B. Can not tell which dept. had Lost Work Day Case	Plant Wide	H.N.Mueller	1. Paint center needle red to help identi present temperature 2. When the light is turned on, a 1& will be added to the number column for the dept. having suffered the Lost Work Day Case - i.e., Potlining 1&4
(23) Gatorade	Potrooms	J.J.Congleton H.N.Mueller J.H.Brantley	1. Three mixers have been purchases and will be located in Lines 1,5,7. The mixers will cool the liquit to 39°F. Gatorade is being provided to those in the potroom area because medically tha is where our heat stress problems have occurred. Completion 78-07-21. 2. Safetygram published 78-07-28.

ARD 001804

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
			3. One additional mixer for Line 3 is on order. Receipt and installation date was 1978-08-31
(24) Find another location for breaking up blocks with backhoe-presently located in Cy.7 west end - dust and noise into Potrooms	Potrooms	J.W.Havins	1. Under study
(25) Find another location for screening ore presently located in Cy.25 east end-dust into Potrooms 24-26	Potrooms	J.W.Havins	1.
(26) Numerous low-profile type vehicles such as bicycles, scooters, payloaders, mowers, small tractors, and some fork trucks have been involved in several accidents and near-misses in the last few years. One of the reasons is lack of visibility	Plantwide	H.N.Mueller	1. Purchase 1,000 bicycle flags of a bright orange color with green safety logo, ALCOA, and "Drive Safely" printed on them. A. 500 for in-plant use B. 500 for employee sales-Alcoa will share in the expense and offer them to employees at the reduced price of $1 each. (Promote off-the-job safety)
(27) Lights on vehicles	Plantside	J.J.Congleton	1. Vehicle lighting policy - complete
(28) Bldg.403 airslide crosses over stairway. This causes a head-bumping hazard. Need some sort of warning device	Atomizer	J.J.Congleton R. A.Kuchera J.B.Kapustay	1.
(29) Lights from Bldg.134 that shine on the street-One out of seven working	North plant	J.J.Congleton	1. W.O.#_____
(30) North road curve is sharp and needs a reflective curve sign and relocated further north	Plantwide	J.J.Congleton	1. Sign ordered- P.O. 698984
(31) People not utilizing walkway to and from showers - using the street	Plantwide	J.J.Congleton	1. Publish safetygram
(32) Asbestos is still being used in the plant	Plantwide	E.B.Parker	1. Compiling a report on asbestos use and action plan to eliminate its use and find substitutes. Report progress at next PS&HSC meeting.

ARD 001805

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(33) Inadequate clean-up of regenerated alumina spilled from A446 units and regenerators in Courtyards 58,60,62 (Returned From Complete List)	Carbon Plant	D.L.Smith H.N.Mueller W.G.Henson	1. Evaluation of ice cream cart Tennant sweeper complete. Equipment did not perform as hoped. Brooms and shovels still best way of cleaning up in tight spaces. Complete. 2. Evaluate small supersucker. Vacuum attachment fabricated and tried. Slow, but effective. Some modifications may be needed. Will be used in connection with manual methods. Complete. 3. Coordination of waste removal improved. Continuing attention required. 4. Engineering looking at ways of reducing wet beds. EE working on 4 zone control. ME looking at possibility of using potable water for sprays. This will reduce instances of dumping wet ore into the courtyards. Since clean-up is now considered adequate,project as originally stated is complete.

COMPLETED INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(1) Chlorine respirators not available for emergency escape from area	Properzi	E. B. Parker T. J. Randall	1. Respirators placed in area-complete. 2. Training of department coordinators-complete. 3. Training of employees - complete.
(2) No attempt to reduce air flow from plant air system (100 psi ± 15 psi) being used to blow off pots and superstructures	Plant Wide	W. R. Smith	1. Approved blowpipes issued and unauthorized pipes removed from service - complete. 2. Check material and design to eliminate pipe breakage- complete.
(3) Electric fork truck no. 33-164 had non-approved modification to overhead guard (from four post to three post overhead guard)	Ingot	W. D. Essary	1. Overhead guards on all electric trucks modified to be in compliance-complete.
(4) Violation of respirators standards	Total Plant	E. B. Parker	1. Respirator program developed 2. Departmental coordinators trained-complete. 3. Program implemented- complete.
(5) Floor opening above mixer not guarded	Bldg. 127.	D. L. Smith	1. Install permanent guard - complete.
(6) Asbestos exposure	Potrooms	F. H. Sutton	1. Asbestos-free siphon gasket evaluation - complete. 2. Asbestos millboard - discontinued. 3. Discontinue use of compressed air to blow out brake drums-/complete.
(7) Pitch fumes from hot packing material placed on green carbon in baking furnace pits	Carbon Plant	J. W. Havins J. L. Roddy T. Williams	1. Lengthen firing cycle in old furnace when new furnace is in service - complete. 2. Purchase new fluid coke boxes for old furnaces - complete.

ARD 001807

COMPLETED INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(8) Dust from blowing off deck plates	Potrooms	F. H. Sutton	1. Change practice to provide for cleaning of deck plates with brooms and shovels - complete
(9) Dust from blowing off superstructures out for maintenance	Potrooms	D. L. Smith	1. Establish practice of sweeping and blowing off superstructures to minimize dust - complete.
(10) Inadequate dust clean-up	Potrooms	F. H. Sutton E. Gaas	1. Sweeping schedule modified and sweeper operators instructed to empty sweeper and shake bags more often - complete.
(11) Dust from bath crushing and handling	Potrooms	F. H. Sutton E. B. Parker E. Gaas	1. Sweeping done more frequently, but no immediate engineering solution to control dust has been found. Long range solution lies in replacing bath crushing facility. In meanwhile, equipment operators in bath crushing area have been issued Airstream helmets - complete.
(12) Dust leaks in dense phase ore transport system	Carbon Plant	D. L. Smith T. Williams	1. Establish practice to provide for rapid shutdown and repair of leaks-complete. 2. Ceramic elbow sections evaluated and approved - being installed on a replacement basis - complete.
(13) Silica dust from brick saw being used by contractor	Carbon Plant	T. Hormuth	1. Material being cut was cardboard - no silica problem - complete.
(14) Need to identify areas of exposure to harmful air contaminants	Entire Plant	E. R. Goltra,MD E. B. Parker	1. Sampling program implemented and is a continuing process - complete.

ARD 001808

COMPLETED INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(15) Hypertension (high blood pressure) among employees	Entire plant	E. R. Goltra,MD	1. Dr. Goltra assists in hypertension control program through annual physicals of all employees and program is continuing - complete.
(16) Not enough parking palces and excessive speed in parking lot	South Parking Lot	W. D. Essary	1. Restripe parking lot and install speed bumps - complete.
(17) Chlorine fumes from Ingot Plant furnace stacks	Ingot Plant	G. G. Owen T. J. Randall	1. Minimize furnace fluxing through use of in-line metal processing A. Equipment has been installed at No.3 DC B. Equipment has been installed at No.2 DC C. No plans to install equipment at No.1 DC
(18) Blowing out potshells for patching	Potrooms	D. L. Smith	1. Establish and enforce practices of cleaning out with brooms and shovels. Use air to blow out cracks that can not be cleaned with brooms and shovels - complete.
(19) Dust at butt crusher	Carbon Plant	J. L. Roddy T. Williams	1. Installation of new butt crusher complete. 2. Production equipment to be interlocked with dust collection equipment by 1978-08-15. Complete.
(20) Pitch burns from dust leaks in A446 regenerators	Carbon Plant	G. Johnson	1. Redesign of one regenerator complete Capacity and performance of edesigned unit greatly improved. 2. Two new regenerators to be placed in service in late April or May. Problems with units' insulation have delayed their full use. 3. Improvements in system's operation have eliminated the problem. Complete.

ARD 001809

COMPLETED INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(21) Blowing dust from baked carbon on temporary conveyor	Rodding Room	G. Johnson T. Williams	1. Temporary conveyor removed, however blow-off was moved to another area along new conveyor. Solution to problem lies in improving effectiveness of carbon cleaning machines. Work complete.
(22) Silica exposure during gunniting of flue walls	Carbon Plant	J. L. Roddy T. Williams	1. Personal exposure tests indicated occasional overexposure. Respirator use made mandatory. Complete. 2. Still have problem with skin irritation Barrier cream appears most effective protection. Complete.
(23) Vehicle operating and maintenance program	Plant Wide	T. J. Randall	1. Safety and Health Steering Committee appointed sub-committee to develop program for vehicle operation and maintenance improvements. Sub-committee has met and recommended that Safety and Health Steering Committee handle the matter. Complete.
(24) Recognition brochures	Plant Wide	J.J.Congleton	1. Printed and distributed by supervisors at departmental safety meetings. Complete 78-06-29.

ARD 001810