THIS COPY FOR: Mr. T. B. Bonney, Pittsburgh Office

FROM E. B. PARKER
ROCKDALE WORKS

TO MEMORANDUM

PLAINTIFF'S EXHIBIT
AL-57

1978 May 10 MAY 15 1978

RE: INDUSTRIAL HYGIENE FOLLOW-UP VISIT - MR. T. B. BONNEY, MR. MARCO VESTICH

On 1978 April 25, Mr. T. B. Bonney, Alcoa's Corporate Manager of Industrial Hygiene; and Mr. Marco Vestich, Vice-President for Health and Safety, United Steelworkers of America accompanied by Mr. J. R. Hughes, U.S.W.A., and Mr. Fred Mabry, U.S.W.A., visited Rockdale for a follow-up of their industrial hygiene visit in 1977 August.

The visitors met with the following group to be briefed on the day's planned activities.

Harry W. Brooks
J. J. Congleton
W. J. Drake
W. D. Essary
J. W. Havins
W. G. Henson
C. E. Magee
E. B. Parker

Following the initial meeting, Messrs. Bonney, Congleton, Henson, Hughes, Mabry, Parker, and Vestich proceeded to tour areas of the plant in which problems had been noted previously. Safety and health representatives and superintendents accompanied the group through their respective areas.

The tour included the Carbon Plant and Rodding Room (Bldgs. 54, 160, CY60, CY58, 32A, 32), the Potroom area (center, east and west passageways, room 12, room 130, CY 19E, Bldgs. 27, 127) and the Ingot Plant. The tour was completed before lunch.

Following lunch, Mr. Congleton explained Rockdale's safety organization, paying particular attention to the make-up and roles of the Safety and Health Steering Committee and the departmental safety and health committees.

At 1:00 P.M., the visitors met with the Plant Safety and Health Steering Committee and Managers to review the items which had been listed as problems during and subsequent to the August visit and to discuss their observations of the current situation. A summary of these discussions is attached.

The group commented that noticeable progress had been made in correcting the conditions observed in 1977 August. This was evidenced by the items

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SF-4563 (REV 11-68)

appearing on the "Completed" list. All agreed that there was still much to be done and that continued effort by all involved would be required to complete the items appearing on the "Active" list in a timely fashion.

E. B. PARKER

EBP:cw
Attachments

Copy - Managers
Superintendents
Department Heads
Plant Safety and Health Steering Committee
T. B. Bonney, Pittsburgh
B. D. Dinman, M.D., Pittsburgh
J. R. Hughes, U.S.W.A.
F. Mabry, USWA
C. E. Magee, U.S.W.A., Rockdale
Marco Vestich, U.S.W.A.

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	Plantwide	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 fork 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 furnaces when new furnace is in service - complete 2. Purchase new fluid coke boxes for old furnaces - complete.

ARD 003479

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 I. Korenek	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.

ARD 003480

COMPLETED INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(14) Need to identify areas of exposure to harmful air contaminants	Entire Plant	E. R. Goltra,M.D. E. B. Parker	1. Sampling program implemented and is a continuing process - complete.
(15) Hypertension (high blood pressure) among employees	Entire Plant	E. R. Goltra,M.D.	1. Dr. Goltra assists in hypertension control program through annual physicals of all employees and program is continuing - complete.
(16) Not enough parking places and excessive speed in parking lot	South Parking Lot	W. D. Essary	1. Restripe parking lot and install speed bumps - complete.

ARD 003481

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. 3. Installation for compressor shutdown to be complete 1978-06-30 assuming calibration problems do not reappear.
(2) Pot tenders eating their lunch in potrooms (exposure to fluorides through ingestion)	Potrooms	F. H. Sutton	1. Proposal for upgrading lunchrooms reviewed with potroom people and janitors by 1978-01-30 - complete. 2. RFA for upgrading lunchrooms has been rewritten and is routing. 3. Project to be complete 1978-12-31.
(3) Coal tar pitch volatiles exposure (Carbon Plant)	Mixer Floor	W. R. Smith E. B. Parker	1. Provide respirators - complete. 2. Respirator training - complete. 3. Implement respirator program-complete. 4. Mixer door project to be complete by 1978-07-31. 5. Compliance testing to be complete by 1978-08-31 and results obtained by 1978-09-30.
	Press Room	E. B. Parker W. R. Smith	1. Compliance testing of modified lube system - complete. Results still indicate overexposure. Respirator usage made mandatory for press operators. 2. Area to be retested when permanent lube system is installed and building ventilation is operable -78-06-01.
	Furnace Room	E. B. Parker	1. OSHA samples indicated compliance. Alcoa samples showed borderline results. Should be retested after conditions stabilize. Retesting scheduled by 1978-05-30.

ARD 003482

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(4) Dust at butt crusher	Carbon Plant	J. L. Roddy T. Williams	1. Installation of new butt crusher in progress. Check personal exposure when project is completed. 2. Production equipment to be interlocked with dust collection equipment by 1978-06-11. 3. Identification of other dust sources is a continuing process.
(5) Fluoride exposure	Potrooms	F. H. Sutton	1. Proper respirators provided and people trained - complete. (Results of OSHA tests indicated compliance. Mandatory respirator use not indicated.) 2. Evaluate Wenatchee pot covers. Covers to be shipped in July. 3. Evaluation of experimental Rockdale covers in progress. 4. Continue weekly audits of various components of fume collection system. 5. Continue to stress importance of pot cover condition and replacement.
(6) Excessive noise	Rodding Room	W. R. Smith	1. Rodding room modernization and noise survey to be complete 1978-05-31.
(7) 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 to be complete 78-05-31. 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. Decision to modify cubicle depends on success of filter box burner mufflers.

ARD 003483

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(8) Pitch burns from dust leaks in A446 regenerators	Carbon Plant	G. Johnson	1. Redesign of one regenerator complete. Capacity and performance of redesigned unit greatly improved. 2. Two new regenerators to be placed in service in late April or May. 3. The one redesigned unit plus two new units are expected to more than handle regeneration requirements for all five baking furnaces. If so, remaining two old regenerators will probably be obsoleted. Decision to be made by end of second quarter.
(9) Inadequate clean-up of unregenerated alumina spilled from A446 units and regenerators in Courtyards 58, 60, 62	Carbon Plant	D. L. Smith H. N. Mueller W. 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. 2. Evaluate small supersucker. Design of vacuum attachment completed, materials on hand. Attachment to be fabricated and evaluation completed by 1978-05-31. 3. Coordination of waste removal improved. Continuing attention required. 4. Engineering looking at ways of reducing wet beds. Feasibility study to be complete by 78-06-01.
(10) Blowing dust from baked carbon on temporary conveyor	Rodding Room	G. Johnson T. Williams	1. Temporary conveyor removed, however blow-off hose was moved to another area along new conveyor. Solution to problem lies in improving effectiveness of carbon cleaning machines. Work to do so is in progress. To be complete 1978-06-01.

ARD 003484

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(11) Dust from coke blasting flexible riser bus connections	Potrooms	M. Kassing I. Korenek	1. Pangborn to submit proposal and quotation for enclosed blasting cabinet during second quarter,1978.
(12) Dust from ore bucket filling	Potrooms	B. Hartman	1. Install covered and vented ore bucket filling stations. Line 6 - In progress, to be complete second quarter, 1978. Line 1 (Rm. 4) - In progress, to be complete second quarter,1978. 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 comlete 78-07-01.
(13) 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 being worked on in Pittsburgh Engineering. It is a Company-wide problem and schedule of work is being developed in Pittsburgh. 3. Shop order for improved ore blending device (to minimize slugs of fine material in ore stream) has been approved. Project to be complete second quarter, 1978.

ARD 003485

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(14) 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. 4. Evaluate vacuum cleaning vs. sweeping in basement - complete. Dust exposure significantly reduced by vacuum cleaning. Temporary vacuum lines installed and being used. Additional ejectors on order. Permanent vacuum lines being installed. 5. Shop order for improved ore blending device (to minimize slugs of fine material in ore stream) has been approved. Project to be complete second quarter, 1978. 6. Respiratory protection provided and people trained - complete.
(15) 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 1978-05-31.
(16) 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 to be installed at No.2 DC C. No plans to install equipment at No.1 DC

ARD 003486

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(17) Potroom crane cab environment	Potrooms	J. W. Havins	1. Vortex tubes, Catco, air conditioned cabs, radio and pendant crane controls are being investigated. 2. Airstream helmets are available for use by crane operators. 3. Airstream helmets with treated filter to remove fluoride gas to be evaluated by 1978-04-30 as temporary solution.
(18) Dust spillage from trash screen - A398 systems and 19H tank system	Potrooms	J. Mueller	1. Several alternatives investigated. Engineering still active. Proposal by 1978-05-31.
(19) Dust from belching of Carbon Plant precipitator	Carbon Plant	R. Marin T. Williams	1. Implementation of Research Cottrell recommendations to be complete 1978-06-01. 2. Installation of fan with better fan characteristics to be complete 1978-06-01.
(20) Dust from blowing off superstructures when slipping jacks	Potrooms	F. H. Sutton E. Gaas	1. Use of 30 lb. air to blow off is most effective way of cleaning found thus far. Effort will continue to develop method of combined sweeping and blowing.
(21) Dust from blowing off cranes in Potrooms	Potrooms	W. T. Eckert E. Gaas	1. Vacuum cleaning not satisfactory. Other methods of removing dust to be investigated.
(22) Inadequate number of drinking fountains	Carbon Plant	J. L. Roddy T. Williams	1. Survey made and additional fountains to be provided. Need to reinstall fountain in Bldg. 60.

ARD 003487

ACTIVE INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
(23) 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.
(24) Silica exposure during gunniting of flue walls	Carbon Plant	E. B. Parker T. Williams	1. Personal exposure tests indicated occasional overexposure. Respirator use made mandatory. 2. Still have problem with skin irritation.
(25) Bag changers exposed to unregenerated ore when working in A446 reactors	Carbon Plant	E. R. Goltra,M.D. 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 unsatisfactory in this application. 3. Evaluation of cool suit completed. Found to be satisfactory except for weight of the hoses - need lighter equipment. Have elected to use disposable coveralls and disposable air-supplied hoods and vests. Vortex tube for cooling available when needed. 4. Proper respiratory protection provided.

ARD 003488