FROM J. J. CONGLETON

ROCKDALE WORKS

H & S
Industrial Hygiene

TO PLANT SAFETY & HEALTH STEERIN COMMITTEE

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1979 November 19

RE: PLANT SAFETY AND HEALTH STEERING COMMITTEE MEETING MINUTES

Dates and Times 1979 November 9, 2:30-4:00 p.m.
1979 November 13, 12:00-1:00 p.m.

Attending Weldon Henson, Thomas Williams, Huey Dick, Finis Black, James Magee, Ike Korenek, E. R. Goltra, MD, Garry Blagg, Dave Smith, Nelson Fernandes, Terry Stuller, Brooks Parker, Jerry Congleton

The topic of discussion at the November 9 meeting was the upcoming visit of Mr. J. R. Archibald. The active and complete project list was reviewed.

The November 13 meeting was a luncheon meeting during Mr. Archibald's visit. Safety activity and objectives were discussed. The plant grievance committee was also present at this meeting.

A copy of the projects list is attached.

The next meeting of this committee will be December 13 at 2:00 p.m. in Room 138, Building 80.

J. J. CONGLETON

cw

Copy - F. P. Bergeron/W. J. Drake
Managers
Department Heads
Superintendents
Smelting Safety Managers
J. R. ARchibald, Pittsburgh
T. B. Bonney, Pittsburgh
Christine Dixon, Pittsburgh
H. D. Belk, MD, Pittsburgh
L. E. Anders, USWA, Rockdale

ALCOA

ARD 001856

PLAINTIFF'S EXHIBIT AL-1740

ACTIVE SAFETY PROJECTS

DEPARTMENT PLANTWIDE RESPONSIBLE PERSON

Item and Brief Description	Status
1. Safety representative recognition and training A. Purchase safety caps B. Train safety representatives	Safety caps - fluorescent green - received 78-07-31. Distribution complete 78-9-7. J. J. Congleton to develop safety representatives' training program. Safety reps were trained on CORE Chapter 8, Planned Inspections, during July and Aug., 1979.
2. Safety rule book format needs revising	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. A. Crane safety rules - Nelson Fernandes, Ed Gaas B. Welding/Burning - Garry Blagg, Finis Black C. Tag Out - Garry Blagg, Finis Black D. Confined Spaces - Jerry Congleton, Ike Korenek E. Chlorine - Huey Dick, Brooks Parker F. Fire - Thomas Williams, Nelson Mueller G. Visitors - Ike Korenek, Terry Stuller H. Bldg. 66 - Ron Simpson, Jack Leggett A draft copy of the General Safety Rule Book will be compiled by J.J.Congleton. Services Department Safety Rule Book Complete 79-10-01.
4. People not using walkway to and from showers - using the street. People walking through Ingot Plant building in inclement weather.	Publish safetygram (C.H.Satcher/H.N.Mueller). As of May 3, people are still using the street as a walkway by the Carbon Plant. Enforcement of people to use walkway. Cost estimate for covered walkway to Bldg. 49,50 showers has been prepared. Under consideration by Management, 79-11-02.
5. Establish teams to again audit dept. safety & health steering committees	Start in December, Cholly Weise will scheudle.

ARD 001857

ACTIVE SAFETY PROJECTS

DEPARTMENT PLANTWIDE RESPONSIBLE PERSON

Item and Brief Description	Status
Number of bathrooms in Bldg.27 is insufficient for number of people using these facilities-100 people maximum - 2 urinals and 2 stools.	Engineering actively pursuing cost estimates and scope of project. Preliminary draft done; final cost estimate should be complete 1979 November. Project completion six months following approval. Jackie Chesnutt
Plantwide disaster plan	Jimmie Davis and Nelson Mueller have completed the general work on the plan. Meetings will be held in each department to give an account of the plan and tell what that area will do in the plan. Estimated completion 80-02.
Lock, Tag, Try Procedures	An audio-visual slide presentation has been developed concerning lock, tag, try procedures to educate everyone about it. A committee was formed to handle any questions in the developing or revising of our procedures. This committee is composed primarily of the Plant Safety & Health Steering Committee. Managers and superintendents have reviewed the audio-visual presentation- minor corrections were suggested. 79-10-29.
Time clocks in center passageway by	Clock should be moved out of this highly congested area. Engineering studying location. Estimated completion 80-02.

ARD 001858

ACTIVE SAFETY PROJECTS

DEPARTMENT PLANTWIDE RESPONSIBLE PERSON

Item and Brief Description	Status
10. Safety representative training	As discussed the the Plant Safety & Health Steering Committee, the following agenda was suggested 1. Potential problems and effectiveness of the combination of positions, i.e., safety representative/stewards - how to handle 2. Discussion of CORE safety tools with safety representatives A. Accident Investigation B. Planned Inspection - Completed 79-08-31 3. Perception characteristics of safety representatives 4. Safety representatives should be a communication and information center - what can we do to make this happen? 5. Organizational structure of plant and department safety & health steering committees and roles 6. How can we recognize good performance by the safety represntatives?
1. Sandblasting pot shells to remove acid	A $12,000 local shop order has been approved to install an air line in the southwest corner of the plant away from the railroad. More pipe is on order as of 79-10-15. Estimated completion date - 79-12-31. R.E.Cox, G. Wilson
12. Crocket Street traffic congestion	Congestion on this street in the vicinity of the vehicle maintenance shop, propane and natural gas storage, diesel and gas filling station, and coke unloading is under evaluation by Jimmie Davis, Al Paulsen, and Harry Brooks.
3. Trees along eastern road along the lake are growing taller and hanging out into the road	Mr. Bob Sugg reported that these trees will eventually be removed because they may damage the dam. Most likely work will be completed in the spring of 1980
4. Paint used on concrete walkways has been reported to be slippery when wet	

ARD 001859

ACTIVE INDUSTRIAL HYGIENE PROJECTS

PARTMENT POTROOMS RESPONSIBLE PERSON Hugh McLaughlin

em and Brief Description	Status
Pot tenders eating their lunch in potrooms (exposure to fluorides through through ingestion)	Project as originally defined is complete, however, additional work is needed. Schedule is as follows: 1. Provide adequate air conditioning in all center passageway lunchrooms by 5/1 - Water cooled AC units on hand. Awaiting piping material and installation. Installation underway by Mech.Maint. Complete 79-09 per S.W. Tucker 2. Provide sink, eye wash, water fountain combination in Lines 1-6 by 6/1 - Trial unit installed and found satisfactory. Others ordered. anticipate project complete 1980/4/30. 3. Start a campaign to eat in the lunchroom - November 1 4. Present education program to all supervisors in December- All employees beginning January 1 5. Total compliance with above compaign will be a continuing program
Fluoride exposure	1. Proper respirators provided and people trained - complete. (Results of OSHA tests indicated compliance. Mandatory respiratory use not indicated.) 2. Pot covers have been redesigned for additional strength. Covers for Lines 7 & 8 ordered and being placed in service as received. Reinforcing added to Lines 1-6 cover design.
Potroom crane cab environment	1. Festoon system design complete, but installation on hold because of cost inequities with present self-storing system. 2. Present self-storing system is installed in Rooms 20 and 22 and is operational. Operator acceptance has been marginal at best. 3. All cranes are equipped with snorkles and tests are underway to determine its effectiveness at fluoride exposure reduction.

ARD 001860

ACTIVE SAFETY PROJECTS

DEPARTMENT SERVICES

RESPONSIBLE PERSON Dave Smith

Item and Brief Description	Status
1. Asbestos - cleaning off pot shells in Potlining	Three recent tests have not indicated problems on indiviual jobs being done. However, at the Union's request, we will test the total job being done on midnight shift. A worst case of asbestos on pot shell will be picked for the monitoring.

ARD 001861

ACTIVE INDUSTRIAL HYGIENE PROJECTS

DEPARTMENT SERVICES

RESPONSIBLE PERSON DAVE SMITH

Item and Brief Description	Status
. Dust from coke blasting flexible riser connections in potrooms	1. Pangborn refused to quote on blast enclosure. Sanding belt alternatives are being studied. Reciprocating sander received from PEL is being evaluated. Revisions needed to make effective. No additional progress.
. Bag changers exposed to unregenerated alumina in A-446 reactors	1. Evaluation of English barrier cream complete. Found to be somewhat effective, but not a cure-all. Additional quantities ordered. 2. Evaluation of cool suit completed. Found to be satisfactory except for weight of the hoses - need lighter equipment. Disposable coveralls and disposable air-supplied hoods and vests with vortex tube being evaluated. System works, but excessive water in compressed air plugs filters in very short time. Water traps have been ordered and evaluated. Concern exists that air volume may not be adequate. Investigation continues. Evaluation in CY160 seemed to be satisfactory with TripL trap, but additional experience in other courtyards will be necessary to see how effective TripL trap is in highly wet air. Looking into various air driers. Expect completion by 79-07-01. Missed date, still evaluating driers. Local R/A for trailer-mounted filter/drier approved and equipment ordered.
. Dust spillage from trash screen - systems	1. Proposed new ore unloading station will include means of screening trash

ARD 001862

ACTIVE INDUSTRIAL HYGIENE PROJECTS

DEPARTMENT INGOT & PROPERZI

RESPONSIBLE PERSON TED RANDALL

Item and Brief Description	Status
1. Excessive noise	1. Evaluation of muffled filter box burners completed at ATC. Sample mufflers to be shipped for evaluation. Evaluation at Rockdale complete. Mufflers effective but overly expensive. Inactive 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 action planned until results of exposure dosimeter survey are available. Survey scheduled week of 78-11-13. Results of dosimeter survey 78-11-13 through 11-15 indicated need for hearing protection at No.3 DC but nowhere else in Bldg. 34. Shop order approved. Estimated completion 1979 December.

ARD 001863

ACTIVE INDUSTRIAL HYGIENE PROJECTS

PARTMENT CARBON PLANT

RESPONSIBLE PERSON BILL ECKERT

em and Brief Description	Status
Dust from belching of Carbon Plant precipitator	1. Implementation of Research Cottrell recommendations complete. Still had belching. Research Cottrell representative called in and he pointed out a few things needing attention. Unit performance improved. Long-range solution is to replace unit. Engineering on replacement in progress. Recent dusting is believed to be due to changes being made-will be complete May 6. System will be balanced at that time. Balancing complete. R/A for $500,000 for replacement of the precipitator in Pittsburgh. If approved completion date 80-12-01.
Dust leaks in dense phase ore transport system	1. Establish practice to provide for rapid shutdown and repair of leaks - needs further discussion 2. Ceramic elbow sections evaluated and approved - being installed on a replacement basis - Complete.

ARD 001864

ACTIVE INDUSTRIAL HYGIENE PROJECTS

DEPARTMENT ELECTRICAL ENGINEERING

RESPONSIBLE PERSON BURNEY HOWELL

Item and Brief Description	Status
1. Carbon monoxide alarm not installed for plant air compressors that are used for breathing air	1. Installation for monitoring only - complete 78-02-03 2. CO monitors are installed and operating in Bldg. 66, 27G, and 402. The shutoff valves for the portable compressors remain to be installed. They should be installed by 79-11-30.

ARD 001865

COMPLETED SAFETY & INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
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.
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.
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.
Violation of respirators standards	Total Plant	E. B. Parker	1. Respirator program developed 2. Departmental coordinators trained-complete. 3. Program implemented- complete.
Floor opening above mixer not guarded	Bldg. 127.	D. L. Smith	1. Install permanent guard - complete.
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.
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.

COMPLETED SAFETY & 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) Carbon bouncing off trailers because of rough street and floors-(a)Milam St. between Bldg. 33 & Rm.4 (b)west passageways (c)bumpers on trailers (d)Carbon hugger at push-off station	Plantwide	S.J.Spell W.G.Johnson	A,B.$40,000 R/A for passageway floors & street repair complete C.Start 79-4-14,complete D.Start 79-4-14, 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 001867

COMPLETED SAFETY & INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
5) 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.
6) 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.
7) 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

COMPLETED SAFETY & 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) Inadequate clean-up of regenerated alumina spilled from A446 units and regenerators in Courtyards 58,60,62	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. Complete.

ARD 001869

COMPLETED SAFETY & INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
			4. Engineering looking at ways of reducin 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.
8) Recognition brochures	Plant Wide	J.J.Congleton	1. Printed and distributed by supervisors at departmental safety meetings. Complete 78-06-29

ARD 001870

COMPLETED SAFETY & INDUSTRIAL HYGIENE PROJECTS

Item and Brief Description	Area of Plant	Responsibility	Action
29. Dust from blowing off superstructures when slipping jacks	Potrooms	H. McLaughlin E., Gaas	1. Use of 30 lb. air to bloww off is most effective way of cleaning found thus far. Ultimate solution lies in reducing ore spillage when filling ore bins. Since there is no other apparent solution to problem, item will be removed from the active list.
30. Dust from blowing off cranes in potrooms	Potrooms	W.T.Eckert	1. Vacuum cleaning not satisfactory. No other apparent solution. Item will be removed from active list.
31. Coal tar pitch volatiles exposure (Carbon Plant)	Furnace Room	E. B. Parker	1. OSHA samples indicated compliance. Alcoa samples showed borderline results. Should be retested after conditions stabilize. Retesting complete. No overexposure indicated - complete.
32. Dust from ore belt transfer points	Service Dept.	D.L.Smith	1. Improved dust collection designed and complete.

ARD 001871

COMPLETED SAFETY AND INDUSTRIAL HYGIENE PROJECTS

Item and Brief Description	Action
3. Ditch Road - Detour A. Oil on raods bleeding B. Evaluate installing guard rail to prevent autos going into lake C. Fill in holes on bypass lake road D. Dust from the bypass lake road	To investigate and take appropriate action. Covered roads with slag, watered both morning and afternoon. Road detour removed 1979 February. Roads will be improved as weather and construction activity allow. Complete 1979 February. J.J.Congleton
4. Safety Billboards A. Temperature hard to read B. Cannot tell which dept. had Lost Work Day Case	Paint center needle red to help identify present termperature. When the lgith 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 (H.N.Mueller)
5. 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 poor visibility.	Purchase 1,000 bicycle falgs of a bright orange color with green safety logo, ALCOA, and "Drive Safely" printed on them. (1) 500 for in-plant use (2) 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.) Complete
6. Lights on vehicles	Vehicle lighting policy - complete
7. Lights from Room 134 that shine on street - one out of seven working	W.O.# 6618, 79 March 21 - Lights all working per E. V. Patschke/Bob Thompson 79/3/23
8. North road curve is sharp and needs a reflective curve sign and relocated further north	Sign ordered - P.O. 698984 (W.J.Davis) Complete

ARD 001872

COMPLETED SAFETY AND INDUSTRIAL HYGIENE PROJECTS

Item and Brief Description	Action
39. Have Mr. Leonard Ring, Auckland, New Zealand, recognized internationally in the prevention and control of back injuries conduct lectures and tours for Rockdale	Back Control Program - February 26 to March 2 14 Safety Meetings with 1550 management & hourly employees-1 hour — 14 Hrs. 5 Management Meetings with 129 management employees - 2 hours — 10 Hrs. 1 Engineering Meeting with 40 engineers & drafters - 2.5 hours — 2.5Hrs. Tours with superintendents of respective areas to look at material handling jobs - 14 hours — 14 Hrs. Community relations and spouses and friends lecture on Weds.,Feb.28 from 7:30-9:30 p.m. at Rockdale High School Auditorium-1.5 Hrs. — 1.5Hrs. Rotary Club - Rockdale, 20 people, 0.5 hours — 0.5Hrs Total People Attending - 1,778 — 42.5 Hrs Complete
40. Potline scrubbers plugged causing gas to fill up east end, room 4	Regarding potline scrubbers, mechanical maintenance is responsible for inspection, cleaning and operation (Steve McFaull) Complete 1979-02-08
41. Inadequate cleanup of regenerated alumina spilled from A446 units and regenerators in Courtyards 58,60,62	Evaluation of ice cream cart Tennant sweeper complete. Equipment did no perform as hoped. Brooms and shovels still best way of cleaning up in tight spaces. Complete. 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. Coordination of waste removal improved. Continuing attention required. Engineering looking at ways of reducing wet beds. EE working on four zone control. ME looking at possibility of using potable water for sprays. This will reduce instances of dumping wet ore into the courtyards. Since cleanup is now considered adequate, project as originally stated is complete.
41. Bldg. 403 airslide crosses over stairway. This causes a head-bumping hazard. Need some sort of warning device.	Painted for hazards - Complete (L.E.Tate)

ARD 001873

COMPLETED SAFETY AND INDUSTRIAL HYGIENE PROJECTS

Item and Brief Description	Action
2. Audio-visual lost work day review	Project complete. Shown at May 3 Plant Safety and Health Steering Committee meeting. (Dave Smith, Chris Stern, Nelson Mueller)
3. Gasoline and diesel pump station - main entrance to plant near walkway	Present gasoline and diesel pump station to be relocated. Suggested locations are: (1)vicinity of new vehicle repair shop (2) across from Properzi building (3) 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 78-9-21 meeting. In the meantime, enforcement of our present rule prohibiting tank trucks from filling the underground tank at shift change will be emphasized. RFA approved in early December per W.D.Essary. Completed 79-11-02.
4. Coffield junk truck hauling material not secured or tied down. Material has been observed having fallen off along roadside	Jack Fry contacted Coffield regarding situation. Item complete.
. Purchasing of safety equipment at Stores trailer, particularly safety shoes, is frustrating because one has to do this after shift because of employee sales hours - 8:00-9:00 a.m. and 3:00-5:00 p.m. Monday thru Friday	Complete

ARD 001874

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

ARD 001875

COMPLETED INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA OF PLANT	RESPONSIBILITY	ACTION
) 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
) 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.
0) 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.
1) 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.
2) 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.

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.

ARD 001877

COMPLETED INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA	RESPONSIBILITY	ACTION
(19) Dusting at ore unloading station	Services	Dave 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 have been repaired. Complete. 5. Shop order for improved ore blending device (to minimize slugs of fine material in ore stream) has been approved. Installation complete. Equipment performing satisfactorily. Complete. 6. Respiratory protection provided and people trained. Complete. 7. Investigate reducing volume of hoppers to reduce dusting when unloading into an empty hopper. Wooden prototype constructed for evaluation. Prototype awaited installation so long that it rotted and had to be scrapped. 8. Cancel project. Technology in new facility will resolve these problems.

ARD 001878

COMPLETED INDUSTRIAL HYGIENE PROJECTS

ITEM AND BRIEF DESCRIPTION	AREA	RESPONSIBILITY	ACTION
(20) Coal tar pitch volatiles exposure	Press Room	W.T.Eckert	1. Compliance testing of modified lube system-complete. Results still indicate overexposure. Respirator usage made mandatory for press operators. 2. Area has been retested. Results indicate marginal compliance with OSHA standard. Respirator use still recommended. 3. Engineering considering means of providing additional ventilation. Fabrication of roof cover openings complete. Ventilation complete. 4. Employees retested - awaiting results. 5. Results show compliance, respirator protection made optional. 6. Retesting by OSHA 8/7/79. Results indicated compliance-project complete
(21) Inadequate number of drinking fountains	Carbon	W.T.Eckert	1. Survey made and additional fountains to be provided. Request for money to reinstall fountain in Bldg.60 and to install 4 additional fountains, one on the east side of each furnace room has been submitted. Shop order approved, engineering in progress. New fountain installed in Bldg.62. New water line required for 60 (2), 62E, 58E - 79 March. Fountains have been installed in 64E and 160W. Cost estimate has been made on remaining fountains. Engineering has been requested to go ahead with the project. Project complete.

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