IN THE AFTERMATH November 1992

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From: R&D Center, 401-3X9
WIN: 236-1362
Date: February 29, 1988
Subject: February Monthly Report

PLAINTIFF'S EXHIBIT
WH-1106

To: J.W. Fisch, Manager
Env. Remediation and Ind. Hyg. & Safety

A. DEFENSE ELECTRONICS

- Advanced Technology Laboratory, Baltimore, MD

An Industrial Hygiene plant assessment was performed on February 2, 1988. Preliminary findings revealed an exceptional program with only a few recommendations for improvement: 1) Develop a computer system to maintain the large volume of records, 2) implement an annual monitoring program for employees exposed to hazardous materials, and 3) inventories of MSDS's must be maintained in the work areas as required by OSHA.

- Lima, OH

Mr. Dave Mummett, Industrial Hygiene Consultant, Ohio Materials, investigated employee complaints involving mineral oil and dermatosis. We concur with his recommendation to provide engineering controls to reduce oil contamination and employees must use protective clothing and barrier cream to prevent skin contamination. Also, air monitoring is not required.

B. ENERGY AND UTILITY SYSTEMS

1. Nuclear Fuel Business

- Columbia, SC

Messrs. R. G. Kitzer and L. Coco, Radiation Safety Managers at Walts Mill, PA, and Spartanburg, SC, respectively, assisted in an audit of the Radiation Safety and Industrial Hygiene programs on February 15 and 16, 1988. Preliminary results indicate a need for the following: 1) The in-vivo whole body counter procedures should be included in the formal annual review of procedures. 2) Vacuum relief valves, if possible, should be installed on the bulk chemical storage

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tanks to prevent implosion. 3) Separate the incompatible chemicals in storage areas. 4) Establish an employee monitoring program for ammonia and re-evaluate the noise exposure to employees. 5) The Industrial Hygiene and Safety representative must be included in the purchase of new chemicals for inclusion in the plant right-to-know program. 6) Develop a computer program to maintain the large volume of site training records which are required by the NRC. Note: The Walts Mill program can be used as a guide.

- Uranium Resources Monroeville Mall

  A formaldehyde sampling strategy was developed with Carlton Rutledge of Uranium Resources, Monroeville Mall complex, for the uranium mining site in Bruni, TX. This sampling is necessary to comply with the new OSHA formaldehyde standard.

2. Power Systems

   - PGSD

     At New York Power Authority, Polletti Station (a Westinghouse PGSD customer) an asbestos release occurred during repair of turbine flanges. PGSD had been assured by the utility the gasketing material was asbestos free. After the gasket was removed samples were sent out for analysis and the results were positive for asbestos. The project was stopped and the utility contracted with an asbestos engineering project management firm to assess the project and issue recommendations for this and similar future projects. Corporate Industrial Hygiene provided considerable assistance to PGSD employees during this project and will provide a technical review of the report for PGSD.

   - Monroeville ITTC-286, NSID Digital System Services

     Assisted Clark Duffy, NSID, and Jim Flanigan, Energy Center, in preparing a procedure to evaluate asbestos cloth cable installed inside an Alabama nuclear utility reactor vessel head. The procedure included how and where to sample the laboratory to perform the analysis, and controls to prevent contaminating the customer's facility.

   - PGSD

     California - provided Bob Berquist, Industrial Hygiene and Safety representative, with cost estimate for asbestos bulk sample analysis for his use in developing bids for PGSD.

   - East Pittsburgh, PA/Ft. Payne, AL

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An assessment was performed of an insulating materials process, which is to be relocated to the new Ft. Payne plant. Extensive use of methylene chloride and styrene with poor work practices need to be resolved. Substituting to less hazardous solvents, proper ventilation design and appropriate written work procedures were recommended. Also, temperature controls on the lead solder pot operations and air monitoring after installation will be necessary to document the controls and employee exposures.

- East Pittsburgh/Asbestos Abatement and Shutdown

  - Cost estimates were developed for the removal of asbestos for a potential buyer of the Z building and repair/removal cost for the total plant as requested by the E. Pittsburgh remediation committee. The cost estimates for the Z building is $17,500, and the range of cost estimates for the rest of the plant is $330,000 for repair/removal, and $1,300,000 for total removal.

  Provided material evaluation for RCRA compliance to Ms. S. Graham for disposal of hazardous waste.

- Energy Systems, Forest Hills

  A Radiation Safety Audit was conducted on February 9, 1988, with Mr. P. Felice, Radiation Safety office, R&D Center, assisting in the audit. Preliminary results indicate a need to do the following: 1) Most work involving radioactive material has ceased, therefore, the remaining radioactive material should be shipped for burial or consolidated to one area of the facility. 2) Amend the NRC licences to reflect the reduced quantity of radioactive material. (This in turn could reduce the NRC license fee and the American Nuclear Insurance premium for the facility.) 3) The facility emergency procedures must be upgraded to reflect the reduced facility emergency response capability and the dependence on off-site community emergency services. 4) Retired areas should be surveyed for radioactive material consistent with NRC Guidelines and decommission from the NRC license.

- Energy Systems, Monroeville

  Corporate Industrial Hygiene will provide a technical review of proposed asbestos abatement projects for Facilities and Health and Safety Personnel.

- Spartanburg, SC

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Messrs. R.G. Kitzer and R. Fischer, Radiation Safety Managers, Walts Mill site and Columbia, SC, respectively, assisted in an audit of the Radiation Safety and Industrial Hygiene programs on February 17, 1988. Preliminary results indicate a need for the following: 1) Acetylene and oxygen bottles must be separated as per OSHA requirements. 2) Use the Walts Mill computer program as a guide to develop a similar program to maintain the personnel training records. 3) Establish an employee monitoring program for exposure to welding and varnish dip operations. 4) Label containers of hazardous materials. 5) A long range plan to replace the contaminated waste water sump with an above ground tank to monitor potential leakage.

3. Utility Delivery Systems

- ESP, Montevallo, AL

  Issued Industrial Hygiene Audit report to the plant (see January monthly report for details).

- Jefferson City, MO, Transformer

  Assisting in the development of industrial hygiene sampling and respirator programs.

C. INDUSTRIES

1. Materials Divisions

2. Thermo King Corporation

3. Distribution and Control

- Sumter, SC, Construction Equip. Div.

  An Industrial Hygiene audit was performed on February 18, 1988. Preliminary results indicate a need for the following: 1) A re-evaluation of the noise exposure which recently increased drastically. 2) Monitor employee exposure to xylene vapors in the painting operation. 3) Update the written respirator program to reflect the changes. 4) The need to identify and train a back-up person for Mr. T.W. Self, Human Resources Manager. He is currently also responsible for Industrial Hygiene & Safety and Environmental Control.

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- S. Boston, VA, Small Transformers

  Prepared a MSDS for (W) dielectric product WEMCO N.F. (A non-flammable mixture of tetrachloroethylene and mineral oil.) This MSDS will now be issued to the transformer customers.

4. Advanced Industrial Systems

   - R&IS Greentree/Houston Repair

     During the Industrial Hygiene audit last month, drums labeled "PCB Liquid" were found outside near a storm sewer. (See January monthly report) Follow-up investigation by EISD indicated the drums were mislabeled and the situation was corrected.

D. COMMERCIAL

1. Elevator

2. Beverage Group

3. Furniture Systems

4. Longines Whittnauer, New Rochelle, NY

   - We are providing assistance to the plant in obtaining a nuclear waste permit from the Hanford Nuclear Waste Repository and a nuclear waste broker to transport the tritium waste, i.e., used luminous watch dials which are doped with the nuclear isotope, tritium.

5. Transportation Systems

6. Printing Division

E. INTERNATIONAL

F. MARKETING SERVICES

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G. TECHNOLOGY, QUALITY, AND OPERATION SERVICES

- R&D Center

  - Prepared a draft memo concerning the need for air dispersion modeling and annual site emergency evaluation exercises. This is in response to the proposed change in the arsine gas process (MOCVD) and increase potential for a release.

  - Mr. C. McGuire, Corporate Industrial Hygiene technician normally works two days per week for the R&D Center on the waste management program. During February Mr. McGuire worked eight days on this program and the time was charged back to R&D.

  - The R&D Center Radiation Safety Audit report was issued. (See January monthly report for details.)

  - Mr. R. Wengrzyn spent about four man days providing evaluation of hazardous materials used by (W) plants in the Corporate Standard M/PDS system.

  - Assistance was provided to the Human Sciences Department to complete a nuclear utility contract involving Radiation Protection and Industrial Hygiene functions.

- Penn Center, Plant Apparatus Division

  PAD recently purchased a laboratory in Mishawaka, IN. The lab is occupied and we have been giving technical guidance on a proposed asbestos abatement project.

H. HUMAN RESOURCES

I. BROADCASTING

J. FINANCIAL SERVICES

- WCC

  All documents requested for asbestos abatement project for the property loan in Chicago were received and reviewed for completeness.

  A technical review was provided for the asbestos assessment and abatement cost for a building in Greenville, SC. The original WCC loan in 1983 was $17 million and the estimated cost for just

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the asbestos abatement will be about $7 million. Corporate Industrial Hygiene will continue to give technical guidance to WCC as they negotiate the terms or fate of this loan.

- Westmar Properties

An Industrial Hygiene audit was performed of the Pitt Penn Oil Co. in Creighton, PA. Westmar Properties has 80% ownership and preliminary results indicate a need for the following: 1) Prepare a written hazard communication program. 2) Properly label all containers/tanks of hazardous materials and especially materials being transported. 3) Develop a confined space entry program to protect workers as required by OSHA.

K. LEGAL AND CORPORATE AFFAIRS

- The foundry in Attica, NY, reported on fallen pipe insulation which may contain asbestos. Mr. J. Funk, Buffalo plant, will have this and surrounding materials analysed and, if positive, Corporate Industrial Hygiene will provide assistance for asbestos abatement.

- Technical assistance was provided to R. Wills concerning the ongoing issue - PCB's in (W) bushings - which may have to be reported to the EPA.

- (W) Building

The Allegheny county permit application was completed for the next asbestos abatement project - 14th floor mechanical room. This project will begin March 7 and should be completed in 30 days. S&ME Industrial Technology was recommended for a competitive bid to provide the engineering consulting and Mr. Walt Mansfield will investigate.

L. MISCELLANEOUS

- An inventory of Industrial Hygiene monitoring equipment and training tapes, e.g., sampling pumps, noise meters, radiation survey meters and velometers are calibrated and maintained for use in (W) plants. Last month I.H. equipment or tape were issued to the following plants to perform monitoring or training as required by OSHA: College Station, TX, Forest Hills, PA, London, KY, Muncie, IN, St. Louis, MO, Jefferson City, MO, E&IS Greentree, O'Hara Twp., PA, R&D Center, and Environmental Affairs.

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- The 3M Corporation was notified by the NRC to cease manufacturing air ionisers and to recall all 500,000 previously manufactured units. These units contained a nuclear isotope polonium-210 which eliminates static electricity and there are reports that some of the sources have leaked.

  This recall will affect about 20 (W) plants which have from several to over 400 units in use.

  Corporate Industrial Hygiene with assistance from R. Wills, Environmental Law, J. Nardi, Energy Center, and B. Behringer, Baltimore Defense, has alerted the affected plants of the recall. We also informed them of a potential replacement product and are assessing the financial impact on the corporation. Note: None of the (W) plants have experience and leakage of the sources.

- The next Industrial Hygiene Newsletter has passed the review cycle and will be sent to Mr. Pitts for his review/approval before issuing.

- <u>Westinghouse Information System for Health, Environment, and Safety (WISHES)</u>

  Technical assistance was provided for the installation and use of WISHES at the following plants: West Valley, NY, Western Zirconium, UT, Charlotte, NC, TEMCO, Ferndale, WA. NOTE: Wishes is a Westinghouse microcomputer-based software for storage and retrieval of employee exposure records to hazardous materials and physical hazards.

- The next module-biological monitoring records is being developed. This module allows for the storage and retrieval of occupational bioassay samples that were collected to monitor exposure to hazardous materials. Dr. Curtis, Medical Director, is providing technical/medical review of this module. The following plants are also used as pilot plants in the development of this module: Sunnyvale, CA; TEMCO, Ferndale, WA; Coral Springs, FL; South Boston, VA; Bloomington, IN; and Western Zirconium, UT.

C.W. Bickerstaff, Manager
Corporate Industrial Hygiene
Environmental Affairs

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