LOUISIANA DIVISION INDUSTRIAL HYGIENE REPORT

REV 8(E)

AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

DEPARTMENT	FILE NUMBER	DATE
POWER 2	LAD-PWR2 - 86.01	03-25-87

TITLE

POWER 2 INDUSTRIAL HYGIENE ACTIVITY REPORT FOR 1986

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SUMMARY

The following industrial hygiene activities went on at Power 2 during 1986. Implementation and training on the Hazard Communication Standard as well as developing and reviewing the Chemical Exposure Index was accomplished this year. A hood survey conducted showed no problems, or rating change in our "A" rated hood. An "A" rated hood requires an average air velocity of 100-125 fpm with a minimum of 100 fpm air velocity at any one point on the facing of the hood. Audio examinations were performed on all personnel. The 1986 noise survey was performed using a Bruel and Kjaer Model 2205 sound level meter. Most of the plant is a high noise area and hearing protection is required in all operating areas.

In 1987, a noise survey will be conducted and presented to the plant personnel with information on different types of hearing protection available. Training on Reactive Chemicals, Scott Air Packs and Hazardous Chemicals will be highlighted.

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THE FOLLOWING WAS DONE IN THE INDUSTRIAL HYGIENE AT POWER 2 IN 1986.

HOOD SURVEY

A lab hood survey was conducted to ensure proper flow of air through the hood. The hood was rated as an "A" rated hood which requires an average velocity of 100-125 fpm with a minimum of 100 fpm air velocity at any one point on the facing of the hood.

TRAINING ON CHLORINE

All shifts were trained about the hazards of chlorine, the procedures to detect and repair chlorine leaks, and how to handle emergencies. This training was given by Charlie Cook from the Chlorine plant.

HAZARD COMMUNICATIONS STANDARD TRAINING

All operations and maintenance personnel were trained on the hazardous chemicals in the Power 2 block as part of the Hazard Communications standard which was implemented covering all aspects of the standard in 1986.

CHEMICAL EXPOSURE INDEX

A Chemical Exposure Index was developed for the Power 2 block. This Index was presented in a review meeting to plant, management, enviromental, and industrial hygiene personnel. The only chemical requiring a review is Chlorine.

NOISE EXPOSURE EVALUATION

Audio Examination

All Power 2 personnel were given an audio examination as part of a yearly health survey.

Area Surveys

As shown in Attachments 1 and 2, most of the plant is a high noise area (>90 dbA), especially around the turbomachinery. The entire plant is considered an ear protection area. High noise areas are posted with warning signs and these areas are communicated to employees in the annual Industrial Hygiene Safety Meetings.

GOALS AND SAMPLING STRATEGY PLAN FOR 1987

1. Noise

Conduct area surveys following insulation of GT-300, and GT-400 (scheduled to be completed in March 1987) and while the plant is being shut-down and started-up.

Gather base line data on Operations personnel using a DuPont MK-2 Audio Dosimeter.

2. Yearly Scott Air Pack Training

Train all operation personnel how to use a Scott Air Pack. Perform fit test on operational personnel.

3. Yearly Reactive Chemical Training

Train all personnel on the dangers on Reactive Chemicals and how to protect themselves.

4. Yearly Hearing Protection Training

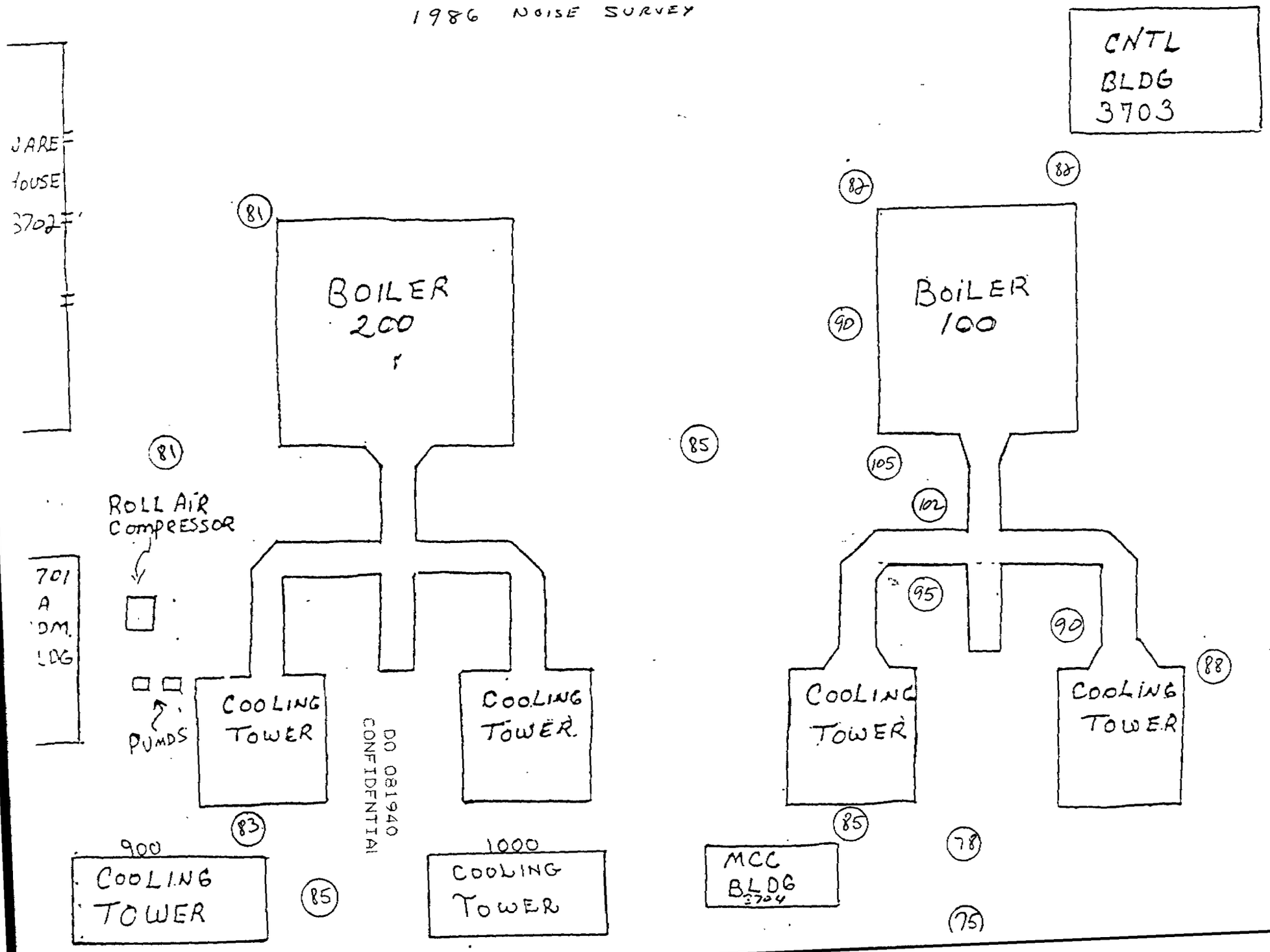
Review the different types of hearing protection available and all other pertinent items of the Hearing Protection Standard with operations personnel.

5. Yearly Hazard Communication Standard Training

All components of the Hazard Communications Standard will be reviewed including all chemical hazards.

ATTACHMENT #1

1986 NOISE SURVEY



ATTACHMENT #2

G.T. 300

1986 NOISE SURVEY

G.T. 300/400 AREA NOISE SURVEY

G.T. 400

1986 NOISE SURVEY

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