

DOCKET NO. 70-90
File 4

ENGELHARD INDUSTRIES, INC.

March 25, 1959

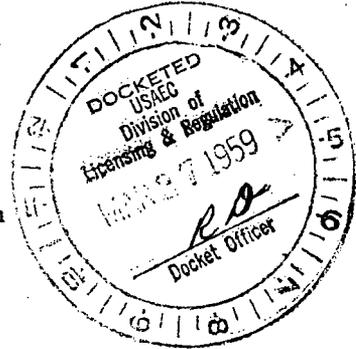
EXECUTIVE OFFICES

113 ASTOR STREET
NEWARK 2, N. J.
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United States Atomic Energy Commission
Washington 25, D. C.

Attention: Mr. J. C. Delaney
Chief Nuclear Materials Section
Licensing Branch
Division of Licensing & Regulation

Your Reference: 70-90
LRL:JCD



Gentlemen:

In reply to your letter of January 26, 1959 requesting detailed description of monitoring instrumentation and procedures we wish to submit the following information for your consideration.

A radiation monitoring system for detection of gamma radiation in excess of 10 milliroentgen per hour has been ordered from Victoreen Instrument Co., Cleveland, Ohio. The expected installation date is May 29, 1959.

The monitoring and alarm system will consist of a Model 900-96 Victoreen Remote Area Monitoring system with two (2) channels, each channel will be a six (6) decade channel responding to gamma radiation from 1 mr/hr to 1000 R/hr. The detectors will be Victoreen Model 716A with a built-in calibration source. Gamma radiation striking the detectors will actuate an indicator light and meter on the Model 900-96 chassis as well as an audible horn alarm, Crouse-Hinds, Model WH 130-3A. The horn will be located in the operating area. For purposes of record as well as supplying valuable information in an emergency a strip chart recorder located at the plant entrance guard house will continuously record any gamma radiation detected by the monitoring system. The recorder used will be a six point, six decade strip chart recorder, Weston Model 6705. The monitoring system has facilities for an additional three detector channels should they be required in the future to cover plant expansion.

The various components of the radiation monitoring and alarm system will be located in the uranium refinery, building T. A sketch is enclosed showing the plant layout and the location of the monitors. The main chassis with the power supply will be located in the office in the southwest corner of building T. One detector will be located on the west wall, the other detector will be located on the east wall. The horn alarm will be attached to a building column as centrally located as possible. The strip chart recorder will be in the guard-house some 200 feet east of Building T.

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United States Atomic Energy Commission -2-

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It is planned to check the monitoring system using the built-in calibration source at the start of the work week. Once a month an evacuation drill will be conducted. Details of these were submitted previously. The alarm system will be set to give an audible alarm at any gamma radiation at the detector above 15 mr/hr.

OK
OK
OK

We trust that this information will suffice to describe our monitoring and alarm system.

Very truly yours,

ENGELHARD INDUSTRIES, INC.

By: E. F. Rosenblatt
E. F. Rosenblatt
Senior Vice President

ar

cc R. Gerard
P. Napoli
E. O. Nurmi

Page 3 redacted for the following reason:

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