

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

REGION V

Report No. 80-01

License No. SNM-1677 Priority IV Category E

Licensee: Teledyne Cast Products

4200 W. Valley Boulevard

Pomona, California 91766

Facility Name: (Same as above)

Inspection at: (Same as above)

Inspection Conducted: December 16, 1980

Inspectors: *R. D. Thomas* *3/9/81*
R. D. Thomas, Inspector Date Signed

Approved by: *H. E. Book* *3/9/81*
H. E. Book, Chief Date Signed
Radiological Safety Branch

Summary:

Inspection of December 16, 1980 (Report No. 70-2317/80-01)

This inspection was conducted as a confirmatory survey of the areas where special nuclear materials (SNM) had been used by the licensee. The results of this survey will establish if the facilities can be released for unrestricted use. The areas had previously been decontaminated and surveyed by the licensee. The NRC inspection required two hours onsite by one inspector.

Results:

A physical radiation survey and contamination checks were made in the storage area, the handling area, and the melting pot areas. No significant radiation levels or areas of contamination were observed.

RV From 219 (1)

103180345

DETAILS

A. Person Contacted

Stephen Beal, Research & Development Engineer

NOTE:

Messrs. E. W. Dansby, President, and E. N. Bossing, Radiation Safety Officer, were not available during this inspection.

B. Background

Pursuant to a letter dated January 8, 1980, a request was made by the licensee to have License Number SNM-1677 terminated since all materials had been transferred to Union Carbide Corporation, Paducah, Kentucky which is a DOE contractor. Subsequently, an NRC letter dated September 18, 1980 stated that the licensee must perform a radiation survey of the facilities and submit the results to the Commission. A confirmatory survey would be conducted by NRC prior to termination of the license. The facilities would be released for unrestricted use if the contamination levels are below those specified in Table I of the NRC "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct Source or Special Nuclear Material."

C. Licensee's Survey Results

Enclosed as Appendix A is the Monitoring Survey Report, dated 12/13/79, which indicates the results of the survey conducted by the licensee. The licensee's survey data do not show any radiation or contamination levels present in the melting pot or storage areas.

D. Confirmatory Survey Results

On December 16, 1980, the inspector conducted a confirmatory survey in the storage area, handling areas, and melting pot areas where the SNM had been used or stored.

An alpha survey was conducted using a Ludlum Alpha Meter, Model 12, with an Air Proportional Alpha Probe, Model 43-4. In the areas examined, there were no significant contamination levels observed.

A beta-gamma survey was also conducted using a Dosimeter Corporation, Mini CON-RAD Model No. 3032 with a thin end-window GM detector. In the areas examined, there were no significant radiation levels observed.

Both of the above instruments were in current calibration.

A check for loose radioactive contamination was also conducted by the inspector in the areas mentioned above. Particular attention was placed on the floor areas, melting pots, and objects in the storage area. Twelve swipes were taken during the inspection. The swipes were counted in the NRC laboratory NMC Model PC-55 Gas Proportional Counter which has an alpha efficiency of 49.0%. The counting results indicated no significant contamination levels.

E. Conclusions

Based upon the results of this inspection it appears that all NRC licensed materials have been transferred to a DOE contractor.

It also appears that the licensee has properly decontaminated the facilities and there are no significant radiation or contamination levels present.

It would appear that the areas surveyed could be released for unrestricted use.

F. Exit Interview

Since the President and Radiation Safety Officer were not available at the time of the inspection, only a brief discussion was held with Mr. Stephen Beal. The results of the confirmatory survey were discussed.

TELEDYNE
CAST PRODUCTS

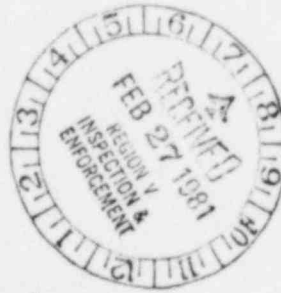
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February 24, 1981

U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
1990 North California Blvd. Suite 202
Walnut Creek, California 94596

Attention: Robert D. Thomas
Chief Materials Radiological Protection Section

Reference: SNM-1677 License

Dear Mr. Thomas:

In Accordance with your request and the "Guidelines for Decontamination of Facilities and Equipment, etc." of November 1976, enclosed please find the survey conducted at Teledyne Cast Products by myself.

The survey was performed using an EON Corporation, Portable Survey Meter, PSM-700 that had just been calibrated by an outside laboratory. No readings above background level were found in any area where the licensed material was stored, transported, handled, melted, or repackaged for return to it's original source, UNION CARBIDE. Wipe samples taken on floor, corners, etc., also showed no meter readings above background.

I hope this information is satisfactory. If more information is required, please contact me.

Sincerely,

TELEDYNE CAST PRODUCTS

Emmett N. Bessing
Emmett N. Bessing
Radiation Safety Officer

ENB:ep

CC: W.T. Crow, U.S. NRC, Washington, D.C. Division of Fuel Cycle and Material Safety
Vandy Miller, U.S. NRC, Washington, D.C., Office of Nuclear Material Safety and Safeguards
E. W. Dansby - TCP
H. Cripe - TCP

Enclosure: Monitoring Survey Report, 12-13-79

APPENDIX A

MONITORING SURVEY REPORT

Teledyne CAST Products, Pomona CALIF

Date: 12/13/79

Time Period

Location

to

MELTING Area & STORAGE Area for 214

Description of job:

CONTAMINATED WITH URANIUM

To determine radiation levels, if any, so TCP can close out License SNM-1677

Measurements Made

No.	Item	Contamination Level		Radiation Level	
		cpm	dpm	mr/hr (WO)	mr/hr (WC)
1	MELTING Area	○	○	○	○
2	STORAGE Area (by Pattern Vault)	○	○	○	○
3					
4					
5					
6					
7					
8					
9					
10					

Instr. Used: PSM 700 Serial #

Instr. Used: PSM 700 Serial #

Comments: No readings obtained from Area surveys or from wipes. No cleanup is required for Termination of this License. TCP will request Termination as soon as proper forms are obtained, etc.

Reviewed by: Emmett M. Bessing
Rad-Safe Officer

12/13/79
Date

Monitor: EMB

APPENDIX A