

Westinghouse
Hittman Nuclear
Incorporated

A Westinghouse
Subsidiary

9151 Rumsey Road
Columbia, Maryland 21045
(301) 964-5055

Refer to:
HN-O-0422

December 27, 1984

U.S. Nuclear Regulatory Commission
Materials Licensing Section
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Subject: Amendment No. 1 - Radioactive Materials
License 12-20378-01

Gentlemen:

Westinghouse Hittman Nuclear Incorporated (Hittman) hereby submits this letter as an application to amend its Radioactive Material License.

This application consists of this letter and a check for \$120 to cover the fee for a license amendment.

The following are proposed changes we wish to have made to our license.

1. Hittman Nuclear & Development Corporation has changed its name to Westinghouse Hittman Nuclear Incorporated.

As you are aware, Hittman has been a wholly-owned subsidiary of Westinghouse Electric Corporation since November 1, 1982. The name change reflects this fact. All locations, operations and personnel remain the same as under our previous name. Please change the name on the subject license to reflect this company name change.

2. Condition 12 of the subject license states that licensed material shall be used by, or under the supervision and in the physical presence of, Anthony Francis Leveling, III; Dale Lillyman; or Richard DiSalvo. The name Lillyman is misspelled; please change the name Lillyman to Sillyman.

We would also like to add two users, Mr. Mike McCauley and Mr. Fred Dowling, to Condition 12 of the subject license. Resumes of experience for Messrs. McCauley and Dowling are included as attachments to this letter.

RECEIVED BY LFMB
Date... 1/25/85
Log... Jan 16
By... [Signature]
Orig. To... [Signature]
Action Compl... [Signature]

Applicant... 60025/P.2.70
Check No. 509098
Amount/Fee... (\$120)
Type of Fee... Application
Date Check... 2/1/85
Received By... [Signature]

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3. Please change the item in Item 6a of our original application (NRC Form 3131) dated February 16, 1983, to "Manager, Technical Services".

4. Hittman has a need to make administrative changes to our operating procedures. We have requests from American Nuclear Insurers to make changes to various procedures and forms contained therein. We also have a backlog of minor changes we would like to make as a result of our operating experience, name change, etc.

We propose that the Radiation Safety Committee be granted authority to revise, modify, and implement our procedures listed in Paragraph 2 of our March 3, 1983 letter without the need for an NRC review and license amendment. We do not seek authority for the RadSafe Committee to appoint users of the licensed facility or to make substantive changes to any levels or limits presently incorporated in our procedures.

5. In Paragraph 3 of our March 3, 1983 letter which accompanied our application, we made a commitment to have our Radiation Safety Officer or the Health Physics Supervisor audit the licensed facility in Geneva, Illinois. We believe that based on 15 months of operating experience and the results of the quarterly audits already performed, that a semi-annual audit is sufficient to ensure continued safe operation and compliance with regulatory and license requirements. Therefore, we propose to perform audits of the facility operation on a semi-annual basis.

6. In Section 12 entitled "Personnel Monitoring Devices", our TLD badge exchange frequency is listed as monthly. Cumulative exposure for badged personnel at the facility for the past 15 months has been less than 20 mR. Pocket dosimeters are used during the performance of licensed activities and no exposure has been noted by dosimeters as a result of these operations to date. Exposure rates in the licensed area have been measured continuously with TLD badges, and average exposure rates for posted periods are on the order of 6.7 to 21.4 μ R/hr. Based on this history of low exposures, it is our judgment that the TLD badge exchange can be changed to a quarterly frequency. We therefore propose that the personnel monitoring device exchange frequency be changed to quarterly.

7. Hittman has commissioned a new piece of equipment since January 1, 1984. The high force, mobile drum compactor called COMPACT I is an integral part of a new radwaste processing service called SAVEPAK (see attached brochure).

COMPACT I and a crew of Hittman personnel visit various fuel cycle facilities. Pre-compacted barrels of Dry Activated Waste (DAW) are crushed in COMPACT I. A number of compacted drums are then loaded

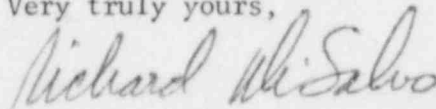
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into overpack drums and are subsequently shipped to a commercial burial site. COMPACT I will be servicing the Westinghouse Nuclear Fuel Plant in Columbia, South Carolina from time to time. It is anticipated that auxiliary systems such as the air handling system, ram assembly, and water collection system could become contaminated with quantities of enriched U-235 (transuranics $<100 \mu\text{Ci/gm}$).

COMPACT I will need to be serviced from time to time at the Service Center in Geneva, Illinois. We hereby request that our license be amended to permit receipt of limited quantities ($<200 \text{ gms}$) of source material which could result from disposal of HEPA filters, decon materials, and water resulting from removal of the water collection system.

If you require further information in processing this application, please call Tony Leveling or the undersigned. Your prompt attention to this application is appreciated.

Very truly yours,



Richard J. DiSalvo
Radiation Safety Officer

RJD:baj

Attachments

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ATTACHMENT I

I. SURVEY FREQUENCIES

- A. Loose Surface Contamination - Loose surface contamination shall be measured on pieces of equipment or packages and specific locations at the following frequencies:
1. Weekly within the facility licensed area. This area consists of the truck bay.
 2. Weekly in area adjacent to the licensed area which directly leads to or from the area. This includes areas immediately outside of the building entrances.
 3. Twice per shift (or every four hours, whichever is less) inside and adjacent to temporary controlled areas when work is being actively performed.
 4. Immediately after completing work or upon dismantling the temporary controlled area inside and adjacent to the controlled area or its former location.
 5. Immediately upon receipt of packages or pieces of equipment that contain, or may contain, radioactive material, and the immediate areas where packages are opened in accordance with HNDC-C-054 and HNDC-C-056.
 6. Prior to shipping packages or pieces of equipment that contain radioactive material, and the immediate area in accordance with U.S. DOT regulations and HNDC-C-051.
- B. Radiation Dose Rates - Radiation dose rates shall be measured on packages or pieces of equipment, and specific locations at the following frequencies:
1. Weekly within the facility licensed area and adjacent to the drum storage room.
 2. Immediately upon receipt of pieces of equipment or packages that may contain radioactive material in accordance with HNDC-C-054 and HNDC-C-056.
 3. Prior to shipping packages or pieces of equipment that contain radioactive material in accordance with U.S. DOT regulations and HNDC-C-051.
 4. Daily adjacent to controlled areas where work is being actively performed and at the end of work inside the controlled area.
 5. Immediately after performing any work which could significantly affect the radiation dose rate adjacent to the area where the work was performed.

6. In addition to the above, area monitoring TLD's shall be mounted next to the Drum Storage Room and on the north, west, and south side of the South Truck Bay. These TLD's will be changed and read once per quarter.
- C. Airborne Radioactivity - Airborne radioactivity shall be measured in the following locations and at the following frequencies:
1. Once every two hours inside a controlled area where packages of radioactive material are being opened, when decontamination is being performed, or when loose forms of radioactive material are being handled, in accordance with HNDC-C-054 and HNDC-C-056. Sample collection shall be continuous at a location in close proximity to the worker's breathing zone.
 2. Once every two hours outside of any containment established for the control of the spread of radioactive contamination while work is being performed, in accordance with HNDC-C-054 and HNDC-C-056.

II. OPERATIONAL RADIATION DOSE RATE AND CONTAMINATION LIMITS

- A. The following release limits will apply to cask, vehicle and equipment surfaces before release.
1. Return to sole use -- packaged, marked and labeled in accordance with applicable DOT regulations and loose surface contamination less than 2,200 dpm/100 cm² removable Beta-Gamma and less than 220 dpm/100 cm² Alpha.
 2. Return to unrestricted use -- fixed contamination less than 0.2 mR/hr at 1 cm Beta-Gamma. Removable contamination less than 1,000 dpm/100 cm² Beta-Gamma and less than 100 dpm/100 cm² Alpha.

R. Michael McCauley - Senior Engineer

(8) Types of Training (a-d)

Westinghouse Hittman Nuclear
Incorporated -

Duration

8 yrs.

Formal

yes

OJT

yes

(plus various power plant indoctrinations and training including:

Comm. Ed. Co., Zion Station
FP&L Co., Turkey Point Plant
GPU Nuclear, Three Mile Island
Jersey Central Power & Light Co.,
Oyster Creek Plant
Iowa Electric Co., Duane Arnold
Plant)

(9) Experience with Radiation

<u>Isotope</u>	<u>Maximum Amount</u>	<u>Where Experience was Gained</u>	<u>Duration of Experience</u>	<u>Type of Use</u>
Fission Products, Corrosion and Wear Products	Up to kilo curie quantities	Field projects at various nuclear power plants	8 yrs.	Processing radioactive waste
		Westinghouse Hittman Nuclear Incorporated	8 yrs.	Inspection, decontamination and maintenance of radioactive waste processing equipment

Note: See Attached Resume

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MIKE McCAULEY
Westinghouse Hittman Nuclear Incorporated

ASSIGNMENT: Start-Up Engineering Supervisor

TOTAL NUCLEAR EXPERIENCE: 8 years

KEY RELEVANT EXPERIENCE:

Employment with Westinghouse Hittman Nuclear Incorporated since 1973.

As Manager of the Hittman Service Engineering Department, Mr. McCauley is responsible for supervision of the installation, start-up, field troubleshooting, service and repair of engineered systems. These systems included in-plant radwaste solidification systems, mobile solidification systems, mobile demineralizer systems and compaction service systems. He also is responsible for the planning and supervision of shop research and development activity involving the design, development and testing of new systems and equipment designs. During his years of service, Mr. McCauley has:

- o Served as factory and site start-up engineer for in-plant solidification systems in Europe and the United States (eight systems total).
- o In recent years served as supervisor for the installation and start-up of five in-plant systems in Asia and the United States.
- o Provided factory and field service engineering for a large number of mobile solidification, demineralizer and compactor systems (over twenty systems).
- o Served as Site Supervisor for two major waste processing operations in support of steam generator decontamination projects.

Prior to beginning his nuclear work with radioactive waste systems, Mr. McCauley was a dredging supervisor for Hittman. In this capacity he was responsible for estimates, operational plans and field operation and maintenance for dredging projects.

Mr. McCauley had U.S. Army service in the U.S. and in Europe with the First Armored Division. He commanded the winning tank and crew in the annual all-European tank gunnery competition.

EDUCATION:

He has completed numerous industrial courses in mechanical systems, electrical controls, radwaste licensing and regulations.

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(8) <u>Types of Training (a-d)</u>	<u>Duration</u>	<u>Formal</u>	<u>OJT</u>
BG&E (Calvert Cliffs)	5 yrs.	yes	yes
Westinghouse Hittman Nuclear Incorporated - (plus various power plant in- doctrinations and training including: Comm. Ed. Co., Zion Station Philadelphia Electric Co., Peach Bottom Station GPU Nuclear, Three Mile Island Indiana & Michigan Power Co., D.C. Cook Plant Jersey Central Power & Light Co., Oyster Creek Plant)	5 yrs.	yes	yes

(9) Experience with Radiation

<u>Isotope</u>	<u>Maximum Amount</u>	<u>Where Experience was Gained</u>	<u>Duration of Experience</u>	<u>Type of Use</u>
Fission Products, and Wear Products, Reactor Fuel	Up to kilo curie	BG&E	5 yrs	Power plant main- tenance and operations
Fission Products, Corrosion and Wear Products	Up to kilo curie quantities	Field projects at various nuclear power plants	5 yrs.	Processing and transportation, packaging of radioactive waste
		Westinghouse Hittman Nuclear Incorporated	5 yrs.	Inspection, de- contamination and maintenance of waste transpor- tation equipment

Note: See Attached Resume

FREDERICK DOWLING
Westinghouse Hittman Nuclear Incorporated

ASSIGNMENT: Manager, Maintenance Department

TOTAL NUCLEAR EXPERIENCE: 10 Years

KEY RELEVANT EXPERIENCE:

Mr. Dowling joined Westinghouse Hittman in 1979 and is currently Manager, Maintenance Department. His duties include responsibility for preventative and routine maintenance and inspection of all Hittman radioactive waste transportation packages and equipment. In accomplishing this task, Mr. Dowling works with other Hittman departments to ensure proper use and operation of this equipment, including on-site use at various nuclear power plants and radioactive waste burial sites. Such work involves all aspects of radioactive waste generation, packaging, transportation and disposal as well as equipment decontamination/contamination control.

His inspection duties include verification inspections of casks for conformance to U.S. NRC certifications, 10CFR71 Subpart H QA programs, and other 10CFR71 routine determinations.

Prior to joining Hittman Mr. Dowling worked for the Baltimore Gas & Electric Company at the Calvert Cliffs Nuclear Power Plant as a Machinery Mechanic and Mechanical Foreman. During this time he was responsible for all maintenance relating to PWR units following NRC and local QA and QC guidelines. He established P.M. programs for both units at Calvert Cliffs, and conducted receipt inspection of mechanical parts and equipment. During power outages he was in charge of all phases of critical path work.

Prior to his work at Calvert Cliffs he worked for Baltimore Gas & Electric Company as a Steamfitter and Steel Worker. In this capacity he became familiar with layout and fabrication design of all types of equipment at fossil industrial power plants. He also became experienced in the interpretation and modification of blue prints.

Mr. Dowling served as a radioman in the U.S. Navy and was honorably discharged.

EDUCATION:

Various Mechanical and Nuclear Engineering Courses, American University

CERTIFICATIONS:

Certified Welder (Nuclear Components) American Welding Society.

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