



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

*Spent Nuclear*

APR 19 1976

W. T. Crow, Acting Chief  
Fuel Processing & Fabrication Branch, FCMS

UNC, H-TRACT - DECOMMISSION INSPECTION COMPLETED

The enclosed letter to UNC and attached report No. 70-371/76-06 are forwarded to you describing our findings on the closeout inspection of the UNC H-Tract Facility. IE findings are in agreement with those presented in the UNC report dated February 26, 1976, which indicate that the facility is within release specifications of "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use of Termination of Licenses for Byproduct Source, or Special Nuclear Material," dated May 3, 1973. (Section 2 of licensee's report)

Although the UNC report did not reference Regulatory Guide 1.86 dated June 1974, IE also found that the radiation levels at the H-Tract Facility are within the acceptable surface contamination levels stated in this Guide.

*Fred A. Dreher*  
Gen W. Roy, Chief *for*  
Field Coordination and  
Enforcement Branch  
Division of Field Operations

Enclosures:  
As stated

cc: J. G. Whiteaker, IE  
J. P. O'Reilly, IE:I, w/o encl.  
✓ F. R. Nelson, IE:I w/o encl.  
F. A. Dreher, IE  
IE Files

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Gen W. Roy, Chief, Field Coordination and Enforcement Branch, HQ

UNITED NUCLEAR CORPORATION - DECOMMISSIONING OF H TRACT FACILITY  
(INSPECTION REPORT NO. 70-371/76-06 - LICENSE NO. BNS-368)  
(Track #f18134H0)

This matter is forwarded for action, so that Licensing may be informed of completion of the IE:I closeout inspection of UNC H Tract Facility, New Haven, Connecticut. Attached is a memo describing our findings on this inspection. IE:I findings are in agreement with those presented in the UNC report dated February 26, 1976 which indicate that the facility is within release specifications of "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use of Termination of Licenses for Byproduct Source, or Special Nuclear Material," dated May 3, 1973 (Section 2 of licensee's report).

Although the UNC report did not reference to Regulatory Guide 1.86, dated June, 1974, we also find that the radiation levels at the H Tract Facility are within the acceptable surface contamination levels stated in this Guide.

Copies of the Inspection Report and the documentation letter are enclosed.

Please contact P. J. Knapp if you require further information on this item.

Paul R. Nelson, Chief  
Fuel Facility and Materials Safety  
Branch

Enclosures:

1. Memo, Plumlee to Nelson, 3/31/76
2. Inspection Report No. 70-371/76-06
3. Documentation Letter 70-371/76-06

cc: F. Braher

W.P.C.

Plumlee/lc  
*NEO*

3/31/76

*PK*  
Knapp

*4/12/76*

*Nelson*  
Nelson

*4/12/76*

APR 10 1976

**P. R. Nelson, Chief  
Fuel Facility and Materials Safety Branch, IE:I**

**Thru: P. J. Knapp, Section Chief, Radiation Support Section**

**UNITED NUCLEAR CORPORATION - DECOMMISSIONING OF H TRACT FACILITY  
(INSPECTION REPORT NO. 70-371/76-06 - LICENSE NO. SHM-368)**

**On March 8-10, 1976 a close out inspection was performed at the UNC H Tract Facility, New Haven, Connecticut.**

**All buildings of the licensed facility were spot checked for surface contamination and for removable contamination.**

**The maximum surface contamination measured at any point was less than 1,000 dpm alpha and less than 2,500 dpm (<.05  $\mu$ rem/hr) beta-gamma radiation. per 100 square centimeters.**

**No activity was detected on smears. The detection level was estimated to be 100 dpm/100  $\text{cm}^2$  for alpha activity and 500 dpm/100  $\text{cm}^2$  for beta-gamma activity on all smears, which were checked by portable survey instruments. Recounts were performed by the licensee's personnel on point chips and a smear taken from an area reported to have detectable removable activity, and no activity was found. The recounts were performed at the Montville Facility under the inspector's observation. The detection level for recounted smears was estimated to be 50 dpm for alpha and 100 dpm for beta-gamma activity.**

**The maximum activity identified in the H Tract Facility was well below the maximum shown by the licensee in the UNC "Final Survey Report after Decontamination." This was a result of continued decontamination work by the licensee after performing the survey reported in the "Final Survey Report."**

**The inspection identified activity that was not shown by the licensee's report, and the licensee disposed of that activity as follows.**

- 1. Radioactive waste from the decontamination work discussed above was removed from the site on March 8, 1976, before the completion of the inspection.**

2. Eight calibration sources were removed from the site on March 12, 1976 and a letter verifying the removal was submitted by the licensee on the same day. (These sources were moved during the inspection in order that the area where they were originally situated could be surveyed.)

In addition to the above, the inspector identified gamma radiation estimated to be a few microram/hr at the brick walls of buildings 3 H and 8 H. Based on the uniformity of the measurements wherever made on these walls (interior and exterior surfaces) the activity is considered to be natural to the material. The measurements performed did not distinguish between activity in these walls and traces of U-235 decay products. The activity level in the walls is of interest only for record purposes. Apparently the licensee's most sensitive survey instrument was less than half as sensitive as the Ludlum survey instrument used by the inspector, thus the licensee's representatives did not detect this activity. The instrument sensitivities were checked at the licensee's Montville Facility on March 9, 1976, against the licensee's check sources, as well as before and after the inspection using IE:I check sources.

Evaluation of the inspection survey showed that the H Tract Facility radiation levels are within the release specifications of "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unresolved Use of Termination of Licenses for Byproduct, Source, or Special Nuclear Material," dated May 3, 1973 (Section 2 of licensee's report\*).

Evaluation with respect to Regulatory Guide 1.86, dated June, 1974, showed that the H Tract Facility Radiation levels are within the acceptable surface contamination levels stated in this Guide.

  
Karl E. Plumlee  
Radiation Specialist

\*Letter, D. Luster to K. Plumlee, March 30, 1976