OPTIONAL FORM NO. 10
MAY 1962 EDITION
GSA FPMR (41 CFR) 101-11.6

UNITED STATES GOVERNMENT

# *Memorandum*

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TO : Donald A. Nussbaumer, Chief
Source & Special Nuclear Materials Branch, DML

DATE: September 21, 1967

FROM : C. D. Luke, Chief
Criticality Branch, DML

SUBJECT: UNITED NUCLEAR CORPORATION (UNC) - EMERGENCY CONTROL PLAN (SECTION 600) - DOCKET NOS. 70-36, 371, AND 820, SEPTEMBER 5, 1967 (NLS:DFC-1381)

REFERENCES: (1) UNC ltr's dtd 7/19/67 (NLS:DFC-1317 & 1318)
(2) Memo's, CDL to DAN, dtd 8/3/67

DML:CB:RHO

UNC has deleted from Subsection 603.c the previous statement that the Fuels Division does not rely on moderation control for nuclear safety. The revised statement indicates UNC is taking into consideration the effects of the use of moderating materials in the event of a fire.

We recommend approval of the subject applications.

G-21

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# *Memorandum*

Layfield Files

TO : Donald A. Nussbaumer, Chief, Source and Special Nuclear Materials Branch, DML

DATE: August 3, 1967

FROM : Charles D. Luke, Chief
Criticality Branch, DML

CDL

SUBJECT: UNITED NUCLEAR CORPORATION (UNC), HEMATITE, MO. -- SPECIAL NUCLEAR MATERIALS CONTROL AND REVISED EMERGENCY PLAN -- DOCKET NO. 70-36
JULY 19, 1967 (NLS:DFC-1318)

DML:CB:RHO

UNC has requested that a Special Nuclear Materials Control Section (Section 500) and a revised Emergency Plan (Section 600) be incorporated into this license. In our review of these sections we have identified only one area of concern. In the discussion of moderation control for fire fighting, Subsection 603.C, UNC has stated that the Fuels Division does not rely on moderation control for nuclear safety. However, we have identified certain areas, such as the storage array in Subsection 402.2, where UNC has based nuclear safety of the overall array on moderation control. Nevertheless, it is not apparent to us that the use of a fire hose would result in a direct criticality hazard. Frank Cronin of UNC informed R. L. Layfield on July 28, 1967, that UNC had arrived at the same conclusion.

You may wish to include in your cover letter some comment based on the conversations between Cronin and Layfield concerning fire fighting activities and moderation control. We recommend approval of this application.

cc: R. L. Layfield, DML

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# *Memorandum*

Layfield Files

TO : Donald A. Nussbaumer, Chief, Source and Special Nuclear Materials Branch, DML

DATE: August 3, 1967

FROM : Charles D. Luke, Chief
Criticality Branch, DML

SUBJECT: UNITED NUCLEAR CORPORATION (UNC), SPECIAL NUCLEAR MATERIALS CONTROL AND REVISED EMERGENCY PLAN -- DOCKET NOS. 70-371 AND 70-820, JULY 19, 1967 (NLS:DFC-1317)

DML:CB:RHO

UNC has submitted a Special Nuclear Materials Management Section (Section 500) and an Emergency Control Plan (Section 600) as a part of the license renewal application for the subject licenses. In our review of these sections we have identified only one possible area of concern, viz., the statement that UNC does not rely on moderation control for nuclear safety. In order that we may confirm this finding, we suggest that approval of Section 600 be deferred until the safety analyses have been submitted and approved.

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