



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D. C. 20545

JUN 8 1970

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DNL:RJD
70-36
SNM-33, Amendment No. 59

United Nuclear Corporation
Commercial Products Division
Route 21A
Hematite, Missouri 63047

Attention: Mr. David G. Darr, Acting Manager
Nuclear and Industrial Safety Department

Gentlemen:

Reference: NIS:LJS-70-730

In accordance with your application dated April 24, 1970, and pursuant to Title 10, Code of Federal Regulations, Part 70, Special Nuclear Material License No. SNM-33, dated April 21, 1965, is hereby amended to include the following changes: increased storage capacity for UF_6 cylinders; a second UF_6 vaporizer station; increased capacity of existing UO_2 in-process storage silos; reduced volume of the Granulator in the Agglomeration station; installation of an additional "Final Blender;" installation of two vacuum systems for collection of press feed "fines" from the pressing operation; and addition of a UF_6 heel removal station. Accordingly, Special Nuclear Material License No. SNM-33 is amended to incorporate the revised pages and drawings specified in Attachment A to this amendment.

All other conditions of this license shall remain the same.

In regard to your request for revision of your in-process pellet package storage rack, approval will depend on resolution of the questions in our letter dated May 11, 1970, regarding the validity of your method of array analysis used in NED-550.

Your request that revised Subpart 825-3 be withheld from public disclosure pursuant to Section 2.790 of 10 CFR 2 is still under review. We

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shall contact you when a final determination has been made regarding your request for withholding.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed by
Donald A. Nussbaumer

Donald A. Nussbaumer, Chief
Fuel Fabrication and
Transportation Branch
Division of Materials Licensing

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UNITED NUCLEAR CORPORATION
HEMATITE, MISSOURI

70-36, SNM-33, Amendment No. 59

ATTACHMENT A

Pages dated April 24, 1970

Supersedes

<u>Subpart or Drawing</u>	<u>Pages</u>	<u>Subpart or Drawing</u>	<u>Pages</u>	<u>Date</u>
825.1	1 of 1	401.1	1 of 1	5/2/69
825.4	1, 2, 2a, 4, 5, 6, 8 and 14 of 14	401.4	1, 4, 5, 6 and 8 of 11 2 of 11 11 of 11	5/2/69 3/15/68 1/3/68
Sketch 825.4-I	1 of 1	401.4-XIII		1/3/68
Sketch 825.4-IA	1 of 1	New		
Sketch 825.4-V	1 of 1	401.4-X	1 of 1	1/3/68
Sketch 825-F-I	1 of 1	401-F-I		3/15/68
825.4.2.2 Nuclear Safety Evaluation	2 of 7	401.4.2.2 Nuclear Safety Evaluation	2 of 8	5/2/69
Attachment 824-D	1 and 2 of 2	Attachment 401-D	1 of 1	1/3/68
Drawing D 5007-2001, Revision 2	Sheets 1-4 Sheets 6-9	Drawing 67004-2414	Sheets 1-4 Sheets 6-9	
B-5007-2008		New		
B-5008-8199		New		



**UNITED
NUCLEAR
CORPORATION**

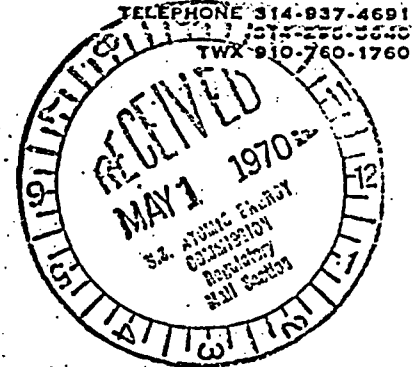
COMMERCIAL PRODUCTS DIVISION / ROUTE 21A, HEMATITE, MISSOURI 63047

DOCKET NO. 70-36

For Div. of Compliance

April 24, 1970

In Reply Refer to NIS:LJS-70-730



Mr. Donald A. Nussbaumer, Chief
Source & Special Nuclear Materials Branch
Division of Material Licensing
4915 St. Elmo Place
Bethesda, Maryland, 20014

Subject: Special Nuclear Materials License SNM-33, Docket 70-36
Modifications of the Semi Works Oxide Pellet Plant

Reference: 1. Application for Renewal of SNM-33 dated November 27, 1969
NIS:CP:LJS-24 as amended February 20, 1970, NIS:LJS-70-667.
2. Amendment Number 51 to SNM-33 dated April 21, 1965.

Dear Mr. Nussbaumer:

This is to inform you of additions and/or modifications currently being made in the SWOPP plant. Your approval is requested. The changes consist only of some additional equipment similar to existing equipment and/or improvements in design. These are intended only to improve operating efficiency and plant capacity and reflect operating experience obtained to date. There is no change in the basic design or process of the plant as presently licensed.

The changes include:

1. Increased storage capacity for UF₆ cylinders.
2. A second UF₆ vaporizer station.
3. Increased capacity of existing UO₂ inprocess storage silos.
4. Reduced volume of the Granulator in the Agglomeration station.
5. Installation of an additional "Final Blender" (equipment item 12-2403-03).
6. Revised pellet package storage rack in the pellet plant. This change is consistent with the new pellet package developed for use in the container UNC 2901.
7. Installation of two vacuum systems for collection of press feed "fines" from the pressing operation.

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The pages listed on Attachment 1 are submitted to incorporate these changes in the license description of the SWOPP plant. They are prepared in the format of the Manual "General Information and Procedures Applicable to the Handling of Special Nuclear Materials" submitted for renewal of SNM-33, (Reference 1). To assist your review, Subpart 825 of the renewal application replaces Subpart 401 of SNM-33 dated April 21, 1965.

These changes are scheduled for completion by June 1, 1970. Your early review and approval is requested. Please note that the new pellet package storage shelves (Subparagraph 825.4.2.15) will not be installed until late July, 1970. Meanwhile, the existing shelves will continue to be used as presently approved. Use of these existing shelves will terminate immediately when the use of new shelves is initiated. It is requested that the license on the existing shelves remain in effect until such time as the new shelves are placed into use.

It is requested that the information in revised Subpart 825-D, Proprietary Information, pages 1 and 2 of 2, continue to be treated as proprietary in accordance with the original approval of these pages. The revision only describes additional equipment related to the existing equipment and does not change the proprietary nature of the information already provided.

Respectfully yours,



L. J. Swallow, Manager
Nuclear and Industrial Safety

gm

cc: AEC 7 copies

General Information and Procedures Applicable
to the
Handling of Special Nuclear Material

Page Changes, Additions, Deletions, Constituting Revision 2, April 24, 1970

<u>Subpart or Drawing</u>	<u>Page Number</u>	<u>Issue Date</u>	<u>Supersedes</u>
825.4	1 thru 2 of 14	4/24/70	2/6/70
825.4	2a of 14	4/24/70	2/6/70
825.4	4 thru 8 of 14	4/24/70	2/6/70
825.4	14 of 14	4/24/70	2/6/70
825.1	1 of 1	4/24/70	2/6/70
Sketch 825.4-I	1 of 1	4/24/70	10/31/68
Sketch 825.4-IA	1 of 1	4/24/70	New
Sketch 825.4-V	1 of 1	4/24/70	10/31/68
Sketch 825-F-I	1 of 1	4/24/70	10/31/68
Nuclear Safety Evaluation UF ₆ - UO ₂ Conversion			
825.4.2.2	2 of 7	4/24/70	5/2/69
Nuclear Safety Evaluation UF ₆ - UO ₂ Conversion			
825.4.2.2	5 thru 7	4/24/70	2/6/70
Nuclear Safety Evaluation Storage, Blending, Milling			
825.2.3-5	7 thru 8	4/24/70	2/6/70
Agglomeration Blenders Interaction Calculations			
825.4.2.6	3 thru 6	4/24/70	2/6/70
Nuclear Safety Evaluation Granulator Interaction Calculations			
825.4.2.7	5 thru 7	4/24/70	2/6/70
Nuclear Safety Evaluation Final Blenders Interaction			
825.4.2.8	5 of 8	4/24/70	2/6/70
825.4.2.8	8 of 8	4/24/70	2/6/70
Nuclear Safety Evaluation Pellet Packaging In-Process Storage			
825.4.2.15	1 thru 2	4/24/70	2/6/70
Attachment 825-D Proprietary Information			
825	1 thru 2	4/24/70	10/31/68
Sketch 825.4.2.9 Vacuum Collector			
825.4	1 of 1	4/24/70	New

Attachment to:
HIS:LJS-70/730

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<u>Subpart or Drawing</u>	<u>Page Number</u>	<u>Issue Date</u>	<u>Supersedes</u>
Drawing D5007-2001,	Sheets 1-4 Sheets 6-9	4/70 4/70	Dwg. 67004-2414 Sheet 1-4 Sheet 6-9
B 5007-2008		4/12/70	New
B 5008-8199		4/17/70	New