

SEP 7 1982

DOCKET NO: 70-1257

APPLICANT: Exxon Nuclear Company, Inc. (ENC)

SUBJECT: SAFETY EVALUATION REPORT, AMENDMENT APPLICATION DATED  
JUNE 2, 1982, RE ADDITION TO UO<sub>2</sub> BUILDING, 07001257050S

Background

ENC has requested authorization to conduct activities in a two-story addition on the UO<sub>2</sub> building. On the second floor, ENC plans to relocate a scrap recovery operation from the existing facility. The first floor will be used as a maintenance shop for work on contaminated equipment. A small area will be used to load drums with product from the second floor.

Discussion

Existing operations in the UO<sub>2</sub> building will be moved into the building addition. These operations include conversion of scrap UO<sub>2</sub> to U<sub>3</sub>O<sub>8</sub> and loading of drums for storage or transport, as well as maintenance of contaminated equipment. The facility addition will be about 29' by 50' by 24' and will be similar to the adjacent powder storage structure. Criticality and fire alarm systems will be extensions of existing systems. Ventilation shall be supplied by a separate intake and HEPA-filtered exhaust stack. Air balance and zone pressures will be maintained by use of air locks and intake and exhaust controls. Air sampling services will be an extension of existing services. The exhaust stack will be fitted with a stack sampler.

The operations will be conducted in four furnaces inside hoods. Space exists for the addition of two more furnaces. The material will be moved into this area in 5-gallon buckets. Nuclear criticality safety will be based on safety batch control of spaced units. ENC administrative practices, specified in the current license, will be used to approve these activities. The existing radiation protection program will be used to protect personnel and the environment.

8209230564 820907  
PDR ADDCK 07001257  
C PDR

OFFICE ▶							
SURNAME ▶							
DATE ▶							

SEP 7 1982

-2-

Conclusion and Recommendations

The staff concludes that the scrap recovery and maintenance operations can be moved to the facility addition. Existing nuclear safety programs will be utilized to assure protection of the public health and safety and the environment. Approval of the application is recommended.

George H. Bidinger  
Uranium Process Licensing Section  
Uranium Fuel Licensing Branch  
Division of Fuel Cycle and  
Material Safety, FMSS

Approved by: W. T. Crow, Section Leader

OFFICE	FCUP <i>940</i>	FCUF <i>0</i>	FCUP <i>WTC</i>	FCUF <i>940</i>			
SURNAME	GBidinger/lt	LTyson	WTCrow	<i>940</i>			
DATE	9/3/82	9/7/82	9/3/82	9/7/82			