10/15/85 MN.01-1 MN.1

MEMORANDUM

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TO: FILE							
FROM: 5. pres							
FROM: <u>5. Jones</u> SUBJECT: climination report - Elk River							
SITE NAME: ELK RIVER REACTOR							
CITY: ELK RIVER STATE: MN							
CWNER (S) Past:Current: Dwner contacted [] yes. [] no: if yes, date contacted							
『APE_OF_OPERATION & Research & Development &	Faciøli tyType						
Production scale testing Filot scale Bench Scale Process Theoretical Studies Sample & Analysis	<pre>Manufacturing University Research Organization Government Sponsored Facility Uther follow Contor Readon</pre>						
Production Disposal/Storage	part 3 The reactor demonstration program						
<u>TYPE OF CONTRACT</u>							
□ Prime & □ subcontractor □ Furchase Order	Other information (i.e., cest + fixed fee, unit price, time & material, etc)						
Contract/Purchase Order # Ar (11-1) - 6 51 RCPA * + AEC CONTRACTING PERIOD: 11/62 - 1/68							
DWNESSHIP:							
AEC/MED AEC/MED GOVT QWNED LEASED QWNED	GOVT CONTRACTOR CONTRACTOR						
LANDS							
Lew was lessed from The K	urel cooperation Power asan (R CPA)						
unerradiated fue was phypic back to menufacturer							
united nuclear Corporation							

AEC/MEL_INVOLVEMENT_AI_SITE Health Physics Protection Control □ Little or None AEC/MED managed operations □ AEC/MED responsibility AEC/MED responsible for Contractor responsibility accountability AEC /HED overviewed operations Contractor had total control Contractor operated MATERIALS HANDLED: Type (on basis of records reviewed) KK No Radioactive Natural Radioactive from Feed Materials Production ore Refined Source Material Residue Natural Radioactive Material from Non-Nuclear Activities Γ Man-Made 8 Other_____ Comment _____ _______ Quantities (on the basis of records reviewed) Production Quantities S S SSSS Small Amounts Comment _____ OTHER PERTINENT FACTS: Facility was Licensed D During AEC/MED-Related Operations For Similar Activities □ For Other Activities Comment_____ 必必 Commercial Production Involving Radioactive Material during AEC/MED Operations Facility Was Decontaminated and Released A. Q Availability of Close Out Records Some 🛛 Sufficient None Radioactive Statue: YES MAYBE PROBABLY N O NCT X Contaminated ---------**Potentiai** for Exposure (accessible! ____ ------

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		DANTITY_OF_BECORDS_AVAILABLE:					
2		Very Little	D	Some	🔊 Sufficient		
	<u>PROBABILITY_OF_FINDING_ADDITIONAL_RECORDS</u> :						
	Ø	Low	🗋 Possible		🗋 High		
	ΒE	COMMENDATIONS:					
		Eliminate Consider for Collect More	Data				
	Cc	mment The -f-	acility was d	econemesi	une from 1971-74		
REFERENCES:. 1. Environmental Statement (WASH-1516)d, Elk River Reactor Dismantling, Elk River, Minnesota. flay 1972						<u>)</u>	
		2.	Final Elk River R (COO-651-92), Jul		Survey: Results and Summary		
		3.	AEC-ELK River Read September. 1974.		rogram Report (COO-651-93), mber,]974		
		4.	Fána] Elk River Ro	eactor Progra	m Report (COO-651-93)d, November 1974		
		5.	McConnon , D. and D Decontamination/[1974		Experiences In ng of the Elk River Reactor, Aprill,		

Summery: The reactor was desmintled and decommissional by 1974. The pite is currently being used for a Coal-fired plant (per 8/13/84 phone Conversition w/ The united Power ason in Elke River)

Elk Rlver Reactor Radlologlcal Summary P.M.

Intrbductlon

The Elk River Reactor was constructed by the U.S. Atomic Energy Commission at Elk River, Minnesota, as part of Its power reactor demonstration program Elk River is located approximately 30 miles northwest of Minneapolis, Minnesota (see Figure 1). The reactor, a boiling water type having a thermal rating of 58.2 mega watts. was operated from November 1962 through January 1968. An AEC Contract (No. AT (11-1)-651) with the Rural Cooperative Power Association (RCPA) required dismantling of the reactor and removal of all detectable reactor originated radioactivity when operations ceased. Fuel elements and for for rods were removed of from the site shortly after plant shutdown In January 1968. The reactor was dismantled in 1971.

<u>Radloloqlcal</u> Status

After completion of dismantling activities kand prior to backfill of the cavities, a final radiation survey of the site was performed during June and July of 1974 to verify that all radioactivity hazardous to public health and safety had been removed. Solid materials resulting from the dismantling which contained detectable reactor originated radioactivity was disposed of outside the state of Hinnesota. The total radioactive Inventory of reactor components was 9,869.3 curies as of April 30. 1971. No evidence of radiation levels In excess of normal background were found during the final site survey. Detailed results of the survey are summarized In report COO-651-92, Final Elk River Reactor Site Survey Results and Summary, dated July 23, 1974.

Elk River Reactor Plant Location Elk River, Minnesota

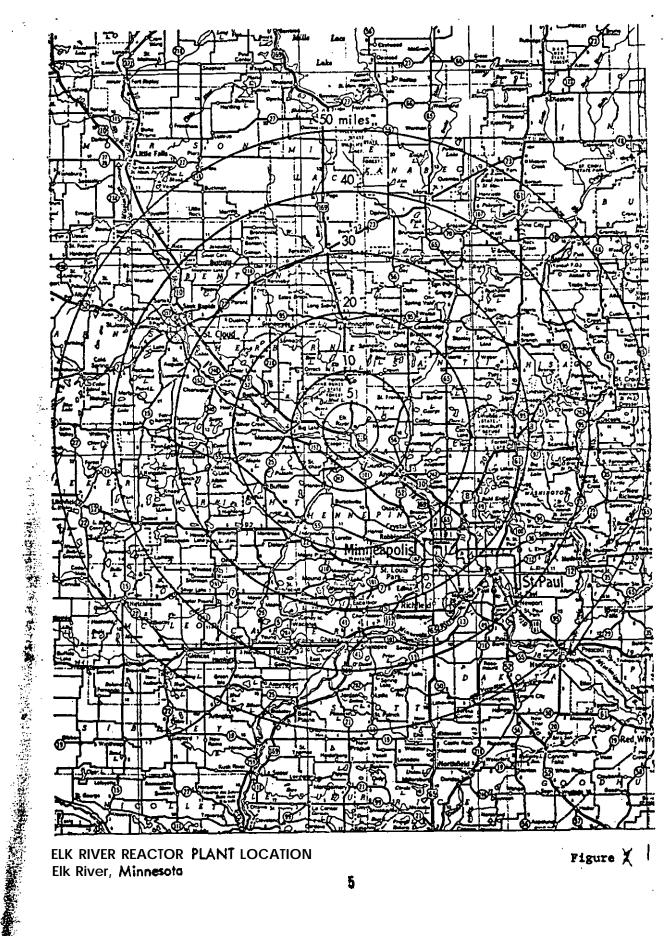
Figure 1

Current Use

After completion of the dismantling operation, the Intent of RCPA was to use the reactor site for facilities associated with its fossil-fired electric generating plant. A recent (August 13, 1984) telephone conversation with the United Power Association in Elk River, Mannesota, confirmed that the former Elk River Nuclear reactor site is currently being used for a coal-fired power plant.

Bibliography

- 1. Environmental Statement (WASH-1516)d, Elk RIver Reactor Dismantling, Elk River, Minnesota, May 1972
- 2. flnal Elk River Reactor Site Survey: Results and Summary (COO-651-92), July 23, 1974
- 3. AEC-ELK River Reactor final Program Report (COO-651-93). September, 1974. Revised November, 1974
- 4. Fánal Elk River Reactor Program Report (COO-651-93)d, November 1974
- McConnon, D. and Nemec, J.F., Experiences In Decontamination/DeCommissioning of the Elk River Reactor, April 1, 1974



ELK RIVER REACTOR PLANT LOCATION Elk River, Minnesota

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Figure X |

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 $\mathcal{H} = \sum_{i=1}^{n-1} \mathcal{H}_i$