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TITLE

STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF DECEMBER 15, 1968

1

AUTHOR

L. V. Barker

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STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF DECEMBER 15, 1968

L. V. Barker

January 7, 1969

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By Authority of CG-NMP-1

RM-Mten 8-3-94

By J.E. Savely 9-20-94

Verified By Gerri Maley 9-20-94

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This report itemizes the irradiations performed by Testing and Irradiation Services for Battelle-Northwest. It lists the material being irradiated, awaiting disposition and material shipped during the report period. An explanation of the various columns in the report follows:

Identification

- a. TISR No. - This is the official number assigned by Testing and Irradiation Services to an experiment for purposes of identification.
- b. Request Number - Customer experiment identification number, if any.
- c. Material - The principle target material, if known, abbreviated or its chemical symbol in capital letters.
- d. Piece Number - Individual sample or assembly identification.

Operating Time (Days) - The number of full-power operating days the sample has been exposed.

CMK Absorbed - The total cmk absorbed by the sample. Does not include the facility.

Charge Date - Date and time sample charged into reactor or date and time reactor reached one-half equilibrium level if sample was charged during a reactor outage.

Location

- a. Facility - Test facility or process tube and reactor containing the experiment.
- b. Test Hole Position - Sample position in-reactor relative to a process tube.
- c. Position Factor - Location of sample in relation to front-to-rear cosine flux distribution. (This factor only applies to front-to-rear irradiations.)

NOTE: The actual shape may deviate from a cosine curve due to local perturbations. The actual shape will be provided upon request.

Exposure to Date - NVT - The total thermal neutron exposure per square centimeter received to date. This number is calculated from facility unperturbed flux and reactor operating time.

Discharge, Date and Time - Date and time samples were removed from the active portion of the reactor or date and time reactor was down to one-half equilibrium level if sample was discharged during a reactor outage.

Shipping Date - Date samples were shipped to the customer or otherwise disposed of.

Supervisor
Irradiation Testing

LV Barker/k

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IDENTIFICATION				OPERATING TIME (DAYS)	CMK ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS ARE IN PROGRESS.														
177	DECLASSIFIED	GRAPH	A0J3	402,2389		02-12-68	2150	BTH -C	0-2068	1,000	2.7+21			
177		GRAPH	A0J4	402,2389		02-12-68	2150	BTH -C	0-2065	1,000	2.7+21			
177		GRAPH	B0J6	69,1987		09-13-68	1100	BTH -C	0-2074	1,000	4.7+20			
177		GRAPH	B0J7	69,1987		09-13-68	1100	BTH -C	0-2077	1,000	4.7+20			
177		GRAPH	B0J8	69,1987		09-13-68	1100	BTH -C	0-2071	1,000	4.7+20			
177		GRAPH	B0K6	69,1987		09-13-68	1100	BTH -C	0-2080	1,000	4.7+20			
177		GRAPH	00J2	239,3030		02-12-68	2150	BTH -C	0-2059	1,000	1.6+21			
177		GRAPH	00K9	239,3030		02-12-68	2150	BTH -C	0-2062	1,000	1.6+21			
177		GRAPH	A0A6	357,3462		09-22-67	0608	3ATH-KE	0-2984	1,000	3.2+21			
177		GRAPH	A0D2	357,3462		09-22-67	0608	3ATH-KE	0-2977	1,000	3.2+21			
177		GRAPH	A0D3	357,3462		09-22-67	0608	3ATH-KE	0-2981	1,000	3.2+21			
222		U	P22	17,8819		11-28-68	0250	3674-KW		1,000	2.4+20			
222		U	P23	17,8819		11-28-68	0250	3674-KW		1,000	2.4+20			
236		ZIRCON	1V35	56,2061		10-15-68	0658	2CTH-KW		1,000	4.8+20			
236		ZR-NB	1V29	172,7984		04-01-68	0630	3ATH-KW		1,000	1.5+21			
236		ZR	4-28	396,1089		08-13-67	0615	3ATH-KE		1,000	3.6+21			
236		SS	1V37	17,8819		11-28-68	0250	3BTH-KW		1,000	2.0+20			
236		SS	1V36	120,4131		06-11-68	1400	3CTH-KW		1,000	1.4+21			
236		ZIRC	4-30	241,5525		01-14-68	2019	3CTH-KW		1,000	3.0+21			
236		ZIRCON	1V34	56,2061		10-15-68	0658	3DTH-KW		1,000	4.8+20			
236		ZIRC	4-25	241,5525		01-14-68	2019	3DTH-KW		1,000	2.2+21			
243		MOLY	00R3	29,9166		11-08-68	1535	2BTH-KE		1,000	3.3+20			
243		TENSIL	00A1	,6597		12-15-68	0810	3CTH-KE		1,000	7.3+18			
243		VRS	0172	72,6912		07-30-68	1455	4CTH-KW		1,000	8.6+20			
243		CARBON	0177	22,8819		10-24-68	1345	4CTH-KW		1,000	2.5+20			
243		CARBON	0178	22,8819		10-24-68	1345	4CTH-KW		1,000	2.5+20			
243		CARBON	0180	22,8819		10-24-68	1345	4CTH-KW		1,000	2.5+20			
259		HASTLY	0A-G	1059,3136		12-25-64	2255	ETH -C	0-2177	1,000	4.1+21			
259		HASTLY	0A-H	1059,3136		12-25-64	2255	ETH -C	0-2175	1,000	4.1+21			
259		HAST	01-3	239,3035		02-12-68	2150	ETH -C		1,000	9.3+20			
376		VRS	0001	356,7462		09-22-67	0608	2DTH-KE	6-2273	1,000	3.2+21			
376		VRS	0002	356,7462		09-22-67	0608	2DTH-KE	6-2272	1,000	3.2+21			
376	VRS	0003	356,7462		09-22-67	0608	2DTH-KE	6-2271	1,000	3.2+21				
376	VRS	0004	356,7462		09-22-67	0608	2DTH-KE	6-2270	1,000	3.2+21				
376	VRS	0005	356,7462		09-22-67	0608	2DTH-KE	6-2269	1,000	3.2+21				
376	VRS	0006	356,7462		09-22-67	0608	2DTH-KE	6-2268	1,000	3.2+21				
376	VRS	0007	356,7462		09-22-67	0608	2DTH-KE	6-2267	1,000	3.2+21				
376	VRS	0008	356,7462		09-22-67	0608	2DTH-KE	6-2266	1,000	3.2+21				

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IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE N V T	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS ARE IN PROGRESS.														
376		VRS	0009	356,7462		09-22-67	0608	2DTH-KE	6-2265	1.000	3.2+21			
376		VRS	0010	356,7462		09-22-67	0608	2DTH-KE	6-2264	1.000	3.2+21			
376		VRS	0011	356,7462		09-22-67	0608	2DTH-KE	6-2263	1.000	3.2+21			
376		VRS	0012	356,7462		09-22-67	0608	2DTH-KE	6-2262	1.000	3.2+21			
376		VRS	0013	356,7462		09-22-67	0608	2DTH-KE	6-2261	1.000	3.2+21			
376		VRS	0014	356,7462		09-22-67	0608	2DTH-KE	6-2260	1.000	3.2+21			
376		VRS	0015	356,7462		09-22-67	0608	2DTH-KE	6-2259	1.000	3.2+21			
376		VRS	0016	356,7462		09-22-67	0608	2DTH-KE	6-2258	1.000	3.2+21			

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IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TSR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS ARE AWAITING DISPOSITION.														
222		U	P21	93,7270		08-24-68	2324	3CTH=KE		1,000	1,1+21	12-08-68	2145	
222		U	P=19	115,0360		05-18-68	0345	3674-KW		1,000	1,7+21	11-24-68	2400	
222		U	P=20	118,0360		05-18-68	0345	3674-KW		1,000	1,7+21	11-24-68	2400	
243		VRS	0162	31,9469		07-30-68	1455	4CTH-KW		1,000	3,9+20	10-04-68	2100	

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IDENTIFICATION				OPERATING TIME (DAYS)	CMK ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MONTH														
172	UNCLASSIFIED	WATER	1662	.0208		11-19-68	0840	ATH -C		1.000	8.4+16	11-19-68	0910	11-22-68
172		SALTS	1671	1.0000		11-30-68	1300	ATH -C		1.000	7.6+17	12-01-68	1300	12-01-68
172		VARIOS	1672	.0417		12-02-68	0855	ATH -C		1.000	1.7+17	12-02-68	0955	12-02-68
172		VARIOS	1673	.0014		12-05-68	0922	ATH -C		1.000	1.5+15	12-05-68	0924	12-05-68
172		PLASTIC	1683	.0208		12-11-68	0842	ATH -C		1.000	8.4+16	12-11-68	0912	12-12-68
172		TISSUE	1674	.0208		12-07-68	1022	2ATH-KW		1.000	1.8+17	12-07-68	1052	12-07-68
172		TISSUE	1675	.0208		12-07-68	1022	2ATH-KW		1.000	1.8+17	12-07-68	1052	12-07-68
172		TISSUE	1676	.0208		12-07-68	1022	2ATH-KW		1.000	1.8+17	12-07-68	1052	12-07-68
172		TISSUE	1677	.0208		12-07-68	1022	2ATH-KW		1.000	1.8+17	12-07-68	1052	12-07-68
172		TISSUE	1678	.0208		12-07-68	1022	2ATH-KW		1.000	1.8+17	12-07-68	1052	12-07-68
172		TISSUE	1679	.0208		12-07-68	1022	2ATH-KW		1.000	1.8+17	12-07-68	1052	12-07-68
172		TISSUE	1680	.0208		12-07-68	1022	2ATH-KW		1.000	1.8+17	12-07-68	1052	12-07-68
172		TISSUE	1681	.0208		12-07-68	1022	2ATH-KW		1.000	1.8+17	12-07-68	1052	12-07-68
172		TISSUE	1682	.0208		12-07-68	1022	2ATH-KW		1.000	1.8+17	12-07-68	1052	12-07-68
172		VARIOS	1663	.0208		11-30-68	0830	2DTH-KE		1.000	1.8+17	11-30-68	0900	11-30-68
172		VARIOS	1664	.0208		11-30-68	0830	2DTH-KE		1.000	1.8+17	11-30-68	0900	11-30-68
172		VARIOS	1665	.0208		11-30-68	0830	2DTH-KE		1.000	1.8+17	11-30-68	0900	11-30-68
172		VARIOS	1666	.0208		11-30-68	0830	2DTH-KE		1.000	1.8+17	11-30-68	0900	11-30-68
172		VARIOS	1667	.0208		11-30-68	0830	2DTH-KE		1.000	1.8+17	11-30-68	0900	11-30-68
172		VARIOS	1668	.0208		11-30-68	0830	2DTH-KE		1.000	1.8+17	11-30-68	0900	11-30-68
172		VARIOS	1669	.0208		11-30-68	0830	2DTH-KE		1.000	1.8+17	11-30-68	0900	11-30-68
172		VARIOS	1670	.0208		11-30-68	0830	2DTH-KE		1.000	1.8+17	11-30-68	0900	11-30-68
184		VARIOS	6463	.0014		12-14-68	1310	ATH -C		1.000	3.6+15	12-14-68	1312	12-14-68
184		VARIOS	3206	.9062		11-17-68	0900	2ATH-KW		1.000	7.7+18	11-18-68	0645	11-18-68
184		VARIOS	3207	.9062		11-17-68	0900	2ATH-KW		1.000	7.7+18	11-18-68	0645	11-18-68
184		VARIOS	3208	.8646		11-18-68	1000	2ATH-KW		1.000	7.3+18	11-19-68	0645	11-19-68
184		VARIOS	3209	.8646		11-18-68	1000	2ATH-KW		1.000	7.3+18	11-19-68	0645	11-19-68
184		VARIOS	3210	.8681		11-19-68	0955	2ATH-KW		1.000	7.3+18	11-20-68	0645	11-20-68
184		VARIOS	3211	.8681		11-19-68	0955	2ATH-KW		1.000	7.3+18	11-20-68	0645	11-20-68
184		VARIOS	3212	.8750		11-20-68	0945	2ATH-KW		1.000	7.4+18	11-21-68	0645	11-21-68
184		VARIOS	3213	.8750		11-20-68	0945	2ATH-KW		1.000	7.4+18	11-21-68	0645	11-21-68
184		VARIOS	3224	.8924		12-08-68	0920	2ATH-KW		1.000	7.5+18	12-09-68	0645	12-10-68
184		VARIOS	3225	.8924		12-08-68	0920	2ATH-KW		1.000	7.5+18	12-09-68	0645	12-10-68
184		VARIOS	3226	.9236		12-10-68	0835	2ATH-KW		1.000	7.8+18	12-11-68	0645	12-11-68
184		VARIOS	3227	.9236		12-10-68	0835	2ATH-KW		1.000	7.8+18	12-11-68	0645	12-11-68
184		VARIOS	3228	.8507		12-11-68	1020	2ATH-KW		1.000	7.2+18	12-12-68	0645	12-12-68
184		VARIOS	3229	.8507		12-11-68	1020	2ATH-KW		1.000	7.2+18	12-12-68	0645	12-12-68
184		VARIOS	6456	.0007		11-23-68	0912	2ATH-KW		1.000	5.3+14	11-23-68	0913	11-24-68

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IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MONTH														
184		VARIOS	6457	.0007		11-23-68	0914	2ATH-KW		1.000	5.3+14	11-23-68	0915	11-24-68
184		VARIOS	6458	.0007		11-23-68	0916	2ATH-KW		1.000	5.3+14	11-23-68	0917	11-24-68
184		VARIOS	6459	.0007		11-23-68	0917	2ATH-KW		1.000	5.3+14	11-23-68	0918	11-24-68
184		VARIOS	6460	.0007		11-23-68	0919	2ATH-KW		1.000	5.3+14	11-23-68	0920	11-24-68
184		VARIOS	6461	.0007		11-23-68	0921	2ATH-KW		1.000	5.3+14	11-23-68	0922	11-24-68
184		VARIOS	6462	.0007		11-23-68	0923	2ATH-KW		1.000	5.3+14	11-23-68	0924	11-24-68
184		VARIOS	3214	.9167		11-25-68	0845	2DTH-KE		1.000	7.8+18	11-26-68	0645	11-26-68
184		VARIOS	3215	.9167		11-25-68	0845	2DTH-KE		1.000	7.8+18	11-26-68	0645	11-26-68
184		VARIOS	3216	.8854		12-01-68	0930	2DTH-KE		1.000	1.5+18	12-02-68	0645	12-02-68
184		VARIOS	3217	.8854		12-01-68	0930	2DTH-KE		1.000	1.5+18	12-02-68	0645	12-02-68
184		VARIOS	3218	.8646		12-02-68	1000	2DTH-KE		1.000	7.3+18	12-03-68	0645	12-03-68
184		VARIOS	3219	.8646		12-02-68	1000	2DTH-KE		1.000	7.3+18	12-03-68	0645	12-03-68
184		VARIOS	3220	.8646		12-03-68	1000	2DTH-KE		1.000	7.3+18	12-04-68	0645	12-04-68
184		VARIOS	3221	.8646		12-03-68	1000	2DTH-KE		1.000	7.3+18	12-04-68	0645	12-04-68
184		VARIOS	3222	.8785		12-04-68	0940	2DTH-KE		1.000	7.4+18	12-05-68	0645	12-05-68
184		VARIOS	3223	.8785		12-04-68	0940	2DTH-KE		1.000	7.4+18	12-05-68	0645	12-05-68
236		ZR-NB	1V31	154.9165		04-01-68	0630	3BTH-KW		1.000	1.9+21	11-24-68	2400	11-27-68
243		MOLY	00R2	17.9826		11-11-68	1015	2BTH-KE		1.000	2.0+20	11-29-68	0950	11-29-68
271		ZINC	0110	1.0000		11-30-68	1200	2ATH-KW		1.000	8.5+18	12-01-68	1200	12-03-68
271		DEP-U	0112	2.9375		12-12-68	1030	2ATH-KW		1.000	2.5+19	12-15-68	0900	12-15-68
271		DEP-U	0109	3.4271		11-21-68	0950	2DTH-KE		1.000	2.9+19	11-24-68	2005	11-27-68
271		MN	0111	.0139		12-04-68	0825	2DTH-KE		1.000	1.2+17	12-04-68	0845	12-04-68
337		FLXMON	0001	1093.5063		10-20-64	0526	3BTH-KW		1.000	1.4+22	11-24-68	2400	11-27-68
390		SS	0004	1.5208		12-12-68	2100	2ATH-KW		1.000	1.3+19	12-14-68	0930	12-17-68
390		SS	0005	2.5000		12-12-68	2100	2ATH-KW		1.000	2.1+19	12-15-68	0900	12-17-68

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