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STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF JANUARY 14, 1968

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AUTHOR

L. V. Barker

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STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF JANUARY 14, 1968

L. V. Barker

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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.

LV Barker
Supervisor
Irradiation Testing

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LV Barker/k

IDENTIFICATION				C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.		OPERATING TIME (DAYS)	DATE	TIME	FACILITY	TEST HOLE POSITION		POSITION FACTOR	DATE	
THE FOLLOWING IRRADIATIONS ARE IN PROGRESS.													
177		GRAPH	A0J5	300.7009	01-06-67	2145	BTH -C	0-2074	1.000	2.0+21			
177		GRAPH	A0J7	300.7009	01-06-67	2145	BTH -C	0-2077	1.000	2.0+21			
177		GRAPH	A0J6	300.7009	01-06-67	2145	BTH -C	0-2065	1.000	2.0+21			
177		GRAPH	0J-3	158.2692	06-30-67	0842	BTH -C	0-2069	1.000	1.1+21			
177		GRAPH	0J-4	158.2692	06-30-67	0842	BTH -C	0-2083	1.000	1.1+21			
177		GRAPH	0K-2	158.2692	06-30-67	0842	BTH -C	0-2080	1.000	1.1+21			
177		GRAPH	0K-3	158.2692	06-30-67	0842	BTH -C	0-2086	1.000	1.1+21			
177		GRAPH	00J1	207.0414	04-30-67	0352	BTH -C	0-2062	1.000	1.4+21			
177		GRAPH	00J6	207.0414	04-30-67	0352	BTH -C	0-2071	1.000	1.4+21			
177		GRAPH	00K5	207.0414	04-30-67	0352	BTH -C	0-2059	1.000	1.4+21			
177		GRAPH	00K6	207.0414	04-30-67	0352	BTH -C	0-2068	1.000	1.4+21			
177		GRAPH	A0A6	82.9463	09-22-67	0608	3ATH-KE	0-2984	1.000	7.7+20			
177		GRAPH	A0D2	82.9463	09-22-67	0608	3ATH-KE	0-2977	1.000	7.7+20			
177		GRAPH	A0D3	82.9463	09-22-67	0608	3ATH-KE	0-2981	1.000	7.7+20			
177		GRAPH	ANCH	456.0114	05-06-66	1410	4BTH-KE	0-4382	1.000	5.8+21			
177		GRAPH	00C6	456.0114	05-06-66	1410	4BTH-KE	0-4367	1.000	5.8+21			
177		GRAPH	0140	456.0114	05-06-66	1410	4BTH-KE	0-4379	1.000	5.8+21			
177		GRAPH	0145	456.0114	05-06-66	1410	4BTH-KE	0-4376	1.000	5.8+21			
177		GRAPH	0188	456.0114	05-06-66	1410	4BTH-KE	0-4364	1.000	5.8+21			
177		GRAPH	0189	456.0114	05-06-66	1410	4BTH-KE	0-4361	1.000	5.8+21			
177		GRAPH	0190	456.0114	05-06-66	1410	4BTH-KE	0-4373	1.000	5.8+21			
177		GRAPH	0191	456.0099	05-06-66	1410	4BTH-KE	0-4370	1.000	5.8+21			
177		GRAPH	0192	456.0099	05-06-66	1410	4BTH-KE	0-4358	1.000	5.8+21			
177		GRAPH	0193	456.0099	05-06-66	1410	4BTH-KE	0-4355	1.000	5.8+21			
222		UO	P-11	95.3695	09-16-67	1356	3674-KW		1.000	1.5+21			
222		U	P-16	78.2542	10-09-67	0335	3865-KW		1.000	1.3+21			
236		STEEL	4-14	713.9893	02-28-65	1432	2CTH-KW		1.000	9.1+21			
236		ZR	4-28	115.3543	08-13-67	0615	3ATH-KE		1.000	1.1+21			
236		SS	4-24	26.0528	12-07-67	0738	3CTH-KW		1.000	3.3+20			
236		ZIRC	4-30	.1535	01-14-68	2019	3CTH-KW		1.000	1.9+18			
236		ZIRC	4-25	.1535	01-14-68	2019	3DTH-KW		1.000	1.4+18			
243		MOLY	0161	20.4826	10-20-67	0930	4CTH-KW		1.000	2.6+20			
243		MOLY	0162	20.4826	10-20-67	0930	4CTH-KW		1.000	2.6+20			
243		VRS	164J		01-15-68	0935	4CTH-KW		1.000	0.0+00			
243		VRS	165J		01-15-68	0935	4CTH-KW		1.000	0.0+00			
243		VRS	166J		01-15-68	0935	4CTH-KW		1.000	0.0+00			
243		VRS	167J		01-15-68	0935	4CTH-KW		1.000	0.0+00			
243		VRS	168J		01-15-68	0935	4CTH-KW		1.000	0.0+00			

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IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TIR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS ARE IN PROGRESS.														
243		VRS	169J	815.3434 815.3434 815.3434 859.9893 82.9563 173.2160 173.2160 82.3463 82.3463 82.3463 82.3463 82.3463 82.3463 82.3463 82.3463 82.3463 82.3463		01-15-68	0935	4CTH-KW		1.000	0.0+00			
243		VRS	170J			01-15-68	0935	4CTH-KW		1.000	0.0+00			
243		VRS	171J			01-15-68	0935	4CTH-KW		1.000	0.0+00			
259		HASTLY	0A-G			12-25-64	2255	ETH -C	0-2177	1.000	3.2+21			
259		HASTLY	0A-H			12-25-64	2255	ETH -C	0-2175	1.000	3.2+21			
307		FLXMON	0001			10-20-64	0526	39TH-KW		1.000	1.1+22			
368		VRS	0006			09-22-67	0603	2DTH-KE	6-2256	1.000	7.7+20			
372		S-CON	05-2			06-09-67	0038	3CTH-KE		1.000	2.2+21			
372		S-CON	05-3			06-09-67	0038	3CTH-KE		1.000	2.2+21			
376		VRS	0001			09-22-67	0608	2DTH-KE	6-2273	1.000	7.7+20			
376		VRS	0002			09-22-67	0608	2DTH-KE	6-2272	1.000	7.7+20			
376		VRS	0003			09-22-67	0603	2DTH-KE	6-2271	1.000	7.7+20			
376		VRS	0004			09-22-67	0603	2DTH-KE	6-2270	1.000	7.7+20			
376		VRS	0005			09-22-67	0608	2DTH-KE	6-2269	1.000	7.7+20			
376		VRS	0006			09-22-67	0608	2DTH-KE	6-2268	1.000	7.7+20			
376		VRS	0007			09-22-67	0608	2DTH-KE	6-2267	1.000	7.7+20			
376		VRS	0008	09-22-67	0608	2DTH-KE	6-2266	1.000	7.7+20					
376		VRS	0009	09-22-67	0608	2DTH-KE	6-2265	1.000	7.7+20					
376		VRS	0010	09-22-67	0608	2DTH-KE	6-2264	1.000	7.7+20					
376		VRS	0011	09-22-67	0608	2DTH-KE	6-2263	1.000	7.7+20					
376		VRS	0012	09-22-67	0608	2DTH-KE	6-2262	1.000	7.7+20					
376		VRS	0013	09-22-67	0608	2DTH-KE	6-2261	1.000	7.7+20					
376		VRS	0014	09-22-67	0608	2DTH-KE	6-2260	1.000	7.7+20					
376		VRS	0015	09-22-67	0608	2DTH-KE	6-2259	1.000	7.7+20					
376		VRS	0016	09-22-67	0608	2DTH-KE	6-2258	1.000	7.7+20					

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IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TIR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS ARE AWAITING DISPOSITION.														
184		VRS	2789	7.7500		12-22-67	1030	2ATM-KW		1.000	1.3+19	12-30-67	0430	
184		VRS	2784	7.7500		12-22-67	1030	2ATM-KW		1.000	5.2+18	12-30-67	0430	
222		U	P-16	145.2636		02-08-67	0745	5674-KW		1.000	2.3+21	08-08-67	0745	
222		U	P-14	93.9213		05-27-67	1452	3865-KW		1.000	1.5+21	09-13-67	2312	
243		VARIOUS	0132	262.6189		03-14-66	2222	4CTM-KW		1.000	3.1+21	09-13-67	2312	
243		MOLY	0160	20.4826		10-20-67	0930	4CTM-KW		1.000	2.6+20	12-04-67	0045	
295		U	0001	1089.1671		12-11-63	1848	5469-B		.224	2.3+21	11-06-67	1425	

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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		DATE	TIME	
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING 1967													
1/2		MEAT	1272	.0208	12-09-67	1052	2ATH-KW			0.0+00	12-09-67	1122	12-10-67
1/2		MEAT	1276	.0204	12-09-67	1052	2ATH-KW			0.0+00	12-09-67	1122	12-10-67
1/2		MEAT	1277	.0208	12-09-67	1052	2ATH-KW			0.0+00	12-09-67	1122	12-10-67
1/2		TISSUE	1313	.0208	01-03-68	0950	2ATH-KW			1.000	01-03-68	1020	01-05-68
1/2		TISSUE	1314	.0203	01-03-68	0950	2ATH-KW			1.000	01-03-68	1020	01-05-68
1/2		TISSUE	1312	.0208	01-03-68	0950	2ATH-KW			1.000	01-03-68	1020	01-05-68
1/2		TISSUE	1316	.0208	01-03-68	0950	2ATH-KW			1.000	01-03-68	1020	01-05-68
1/2		TISSUE	1317	.0208	01-03-68	0950	2ATH-KW			1.000	01-03-68	1020	01-05-68
1/2		SEASLT	1289	1.0069	12-11-67	2140	2DTH-KE			1.000	12-12-67	2145	12-15-67
1/2		SEASLT	1290	1.0069	12-11-67	2140	2DTH-KE			1.000	12-12-67	2145	12-15-67
1/2		SEASLT	1291	1.0069	12-11-67	2140	2DTH-KE			1.000	12-12-67	2145	12-15-67
1/2		SEASLT	1292	1.0069	12-11-67	2140	2DTH-KE			1.000	12-12-67	2145	12-15-67
1/2		SEASLT	1293	1.0069	12-11-67	2140	2DTH-KE			1.000	12-12-67	2145	12-15-67
1/2		SEASLT	1294	1.0069	12-11-67	2140	2DTH-KE			1.000	12-12-67	2145	12-15-67
1/2		SEASLT	1295	.9965	12-19-67	2115	2DTH-KE			1.000	12-20-67	2110	12-27-67
1/2		SEASLT	1296	.9965	12-19-67	2115	2DTH-KE			1.000	12-20-67	2110	12-27-67
1/2		SEASLT	1297	.9965	12-19-67	2115	2DTH-KE			1.000	12-20-67	2110	12-27-67
1/2		SEASLT	1298	.9965	12-19-67	2115	2DTH-KE			1.000	12-20-67	2110	12-27-67
1/2		SEASLT	1299	.9965	12-19-67	2115	2DTH-KE			1.000	12-20-67	2110	12-27-67
1/2		SEASLT	1300	.9965	12-19-67	2115	2DTH-KE			1.000	12-20-67	2110	12-27-67
1/2		SEASLT	1301	1.0000	12-22-67	1320	2DTH-KE			1.000	12-23-67	1320	12-26-67
1/2		SEASLT	1302	1.0000	12-22-67	1320	2DTH-KE			1.000	12-23-67	1320	12-26-67
1/2		SEASLT	1303	1.0000	12-22-67	1320	2DTH-KE			1.000	12-23-67	1320	12-26-67
1/2		SEASLT	1304	1.0000	12-22-67	1320	2DTH-KE			1.000	12-23-67	1320	12-26-67
1/2		SEASLT	1305	1.0000	12-22-67	1320	2DTH-KE			1.000	12-23-67	1320	12-26-67
1/2		SEASLT	1306	1.0000	12-22-67	1320	2DTH-KE			1.000	12-23-67	1320	12-26-67
1/2		VRS	1307	.0417	12-26-67	2015	2DTH-KE			3.9+17	12-26-67	2115	12-27-67
1/2		VRS	1308	.0417	12-26-67	2015	2DTH-KE			3.9+17	12-26-67	2115	12-27-67
1/2		SEASLT	1309	1.0000	12-27-67	1350	2DTH-KE			8.5+17	12-28-67	1350	12-29-67
1/2		SEASLT	1310	1.0000	12-27-67	1350	2DTH-KE			8.5+17	12-28-67	1350	12-29-67
1/2		SEASLT	1311	1.0000	12-27-67	1350	2DTH-KE			8.5+17	12-28-67	1350	12-29-67
1/2		STEEL	1312	.0417	01-01-68	1225	2DTH-KE			7.6+17	12-28-67	1350	12-29-67
1/2		TISSUE	1318	.0417	01-08-68	1302	2DTH-KE			3.9+17	01-01-68	1325	01-02-68
1/2		TISSUE	1319	.0417	01-08-68	1302	2DTH-KE			3.9+17	01-03-68	1902	01-04-68
1/2		TISSUE	1320	.0417	01-08-68	1302	2DTH-KE			3.9+17	01-08-68	1902	01-09-68
1/2		TISSUE	1321	.0417	01-08-68	1302	2DTH-KE			3.9+17	01-08-68	1902	01-09-68
1/2		TISSUE	1322	.0417	01-08-68	1302	2DTH-KE			3.9+17	01-08-68	1902	01-09-68
1/2		TISSUE	1323	.0417	01-08-68	1302	2DTH-KE			3.9+17	01-08-68	1902	01-09-68

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IDENTIFICATION				C M K ABSORBED	CHARGE		LOCATION		EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TIR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.		DATE	TIME	FACILITY	TEST HOLE POSITION		DATE	TIME	
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING												
172		TISSUE	1324	.0417	01-08-68	1002	20TH-KF		3.9+17	01-08-68	1902	01-09-68
184		VRS	2722	.3528	12-11-67	1002	20TH-KW		7.9+18	12-12-67	0630	12-12-67
184		VRS	2771	.3528	12-11-67	1002	20TH-KW		7.9+18	12-12-67	0630	12-12-67
184		VRS	2773	.8293	12-17-67	0900	20TH-KW		8.4+18	12-18-67	0635	12-18-67
184		VRS	2774	.8293	12-17-67	0900	20TH-KW		8.4+18	12-18-67	0635	12-18-67
184		VRS	2772	.3453	12-18-67	1020	20TH-KW		7.8+18	12-19-67	0630	12-19-67
184		VRS	2776	.3403	12-18-67	1020	20TH-KW		7.8+18	12-19-67	0630	12-19-67
184		VRS	2777	.0472	12-19-67	1015	20TH-KW		7.9+18	12-20-67	0635	12-20-67
184		VRS	2778	.8472	12-19-67	1015	20TH-KW		7.9+18	12-20-67	0635	12-20-67
184		VRS	2779	.8333	12-20-67	1035	20TH-KW		7.8+18	12-21-67	0635	12-21-67
184		VRS	2780	.8333	12-20-67	1035	20TH-KW		7.8+18	12-21-67	0635	12-21-67
184		VRS	2781	.3542	12-21-67	1000	20TH-KW		7.9+18	12-22-67	0630	12-22-67
184		VRS	2782	.8542	12-21-67	1000	20TH-KW		7.9+18	12-22-67	0630	12-22-67
184		VRS	2783	.8299	01-02-68	1050	20TH-KW		7.7+18	01-03-68	0645	01-03-68
184		VRS	2786	.8299	01-02-68	1050	20TH-KW		7.7+18	01-03-68	0645	01-03-68
184		VRS	2787	.8194	01-03-68	1105	20TH-KW		7.6+18	01-04-68	0645	01-04-68
184		VRS	2788	.8194	01-03-68	1105	20TH-KW		7.6+18	01-04-68	0645	01-04-68
184		VRS	2789	.8681	01-04-68	1005	20TH-KW		8.1+18	01-05-68	0615	01-05-68
184		VRS	2790	.8681	01-04-68	1005	20TH-KW		8.1+18	01-05-68	0615	01-05-68
184		PIA	6413	.0007	12-19-67	1010	20TH-KW		5.9+14	12-19-67	1011	12-20-67
184		PIA	6419	.0007	12-19-67	1012	20TH-KW		5.9+14	12-19-67	1013	12-20-67
184		VRS	2791	.8924	01-08-68	0850	20TH-KE		8.3+18	01-09-68	0615	01-09-68
184		VRS	2792	.8924	01-08-68	0850	20TH-KE		8.3+18	01-09-68	0615	01-09-68
184		VRS	2793	.8299	01-11-68	1045	20TH-KE		7.7+18	01-12-68	0640	01-12-68
184		VRS	2794	.8299	01-11-68	1045	20TH-KE		7.7+18	01-12-68	0640	01-12-68
184		VRS	2795	.7917	01-14-68	1145	20TH-KE		1.3+18	01-15-68	0645	01-15-68
184		VRS	2796	.7917	01-14-68	1145	20TH-KE		1.3+18	01-15-68	0645	01-15-68
235		ZIRC	4-27	189.2373	02-27-67	1452	30TH-KW		2.4+21	01-08-68	0943	01-11-68
236		SS	4-32	209.9859	02-03-67	0625	30TH-KW		2.0+21	01-08-68	0943	01-11-68
243		VARIOS	0127	363.2189	01-20-68	1200	40TH-KW		3.6+21	09-13-67	2312	12-20-67
271		DEP-U	0079	1.0000	12-13-67	1750	20TH-KF		9.3+18	12-19-67	1700	12-20-68
271		DEP-U	0081	3.0067	12-29-67	1315	20TH-KF		2.8+19	01-01-68	1325	01-02-68

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