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STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF MARCH 10, 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 MARCH 10, 1968

L. V. Barker

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By Authority of R M. Otten

CG-NMP-1, 8-3-94

By J E Savely 9-22-94

Verified By Jerri Maley 9-22-94

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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.

LV Barker
Supervisor
Irradiation Testing

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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 ARE IN PROGRESS.															
177	DECLASSIFIED	GRAPH	A0J1	237.1762		02-12-68	2150	BTH -C	0-2080	1.000	1.6+21				
177		GRAPH	A0J3	188.4040		02-12-68	2150	BTH -C	0-2068	1.000	1.3+21				
177		GRAPH	A0J4	188.4040		02-12-68	2150	BTH -C	0-2065	1.000	1.3+21				
177		GRAPH	A0K2	188.4040		02-12-68	2150	BTH -C	0-2074	1.000	1.3+21				
177		GRAPH	A0K3	188.4040		02-12-68	2150	BTH -C	0-2071	1.000	1.3+21				
177		GRAPH	A0K5	237.1762		02-12-68	2150	BTH -C	0-2077	1.000	1.6+21				
177		GRAPH	00J2	25.4681		02-12-68	2150	BTH -C	0-2059	1.000	1.7+20				
177		GRAPH	00K8	25.4681		02-12-68	2150	BTH -C	0-2083	1.000	1.7+20				
177		GRAPH	00K9	25.4681		02-12-68	2150	BTH -C	0-2062	1.000	1.7+20				
177		GRAPH	A0A6	132.7089		09-22-67	0608	3ATH-KE	0-2984	1.000	1.2+21				
177		GRAPH	A0D2	132.7089		09-22-67	0608	3ATH-KE	0-2977	1.000	1.2+21				
177		GRAPH	A0D3	132.7089		09-22-67	0608	3ATH-KE	0-2981	1.000	1.2+21				
177		GRAPH	ANCH	505.7740		05-06-66	1410	4BTH-KE	0-4382	1.000	6.4+21				
177		GRAPH	00C6	505.7740		05-06-66	1410	4BTH-KE	0-4367	1.000	6.4+21				
177		GRAPH	0140	505.7740		05-06-66	1410	4BTH-KE	0-4379	1.000	6.4+21				
177		GRAPH	0143	505.7740		05-06-66	1410	4BTH-KE	0-4376	1.000	6.4+21				
177		GRAPH	0188	505.7740		05-06-66	1410	4BTH-KE	0-4364	1.000	6.4+21				
177		GRAPH	0189	505.7740		05-06-66	1410	4BTH-KE	0-4361	1.000	6.4+21				
177		GRAPH	0190	505.7740		05-06-66	1410	4BTH-KE	0-4373	1.000	6.4+21				
177		GRAPH	0191	505.7725		05-06-66	1410	4BTH-KE	0-4370	1.000	6.4+21				
177		GRAPH	0192	505.7725		05-06-66	1410	4BTH-KE	0-4358	1.000	6.4+21				
177		GRAPH	0193	505.7725		05-06-66	1410	4BTH-KE	0-4355	1.000	6.4+21				
236			STEEL	4-14	767.1517		02-28-65	1432	2CTH-KW		1.000	9.7+21			
236			ZR	4-28	168.5168		08-13-67	0615	3ATH-KE		1.000	1.6+21			
236			SS	4-24	79.2153		12-07-67	0738	3CTH-KW		1.000	1.0+21			
236			ZIRC	4-30	53.3160		01-14-68	2019	3CTH-KW		1.000	6.8+20			
236			ZIRC	4-25	53.3160		01-14-68	2019	3DTH-KW		1.000	5.0+20			
243			MOLY	0161	47.5833		10-20-67	0930	4CTH-KW		1.000	6.0+20			
243			MOLY	0162	47.5833		10-20-67	0930	4CTH-KW		1.000	6.0+20			
259			HASTLY	0A-G	845.4782		12-25-64	2255	ETH -C	0-2177	1.000	3.3+21			
259			HASTLY	0A-H	845.4782		12-25-64	2255	ETH -C	0-2175	1.000	3.3+21			
259			HAST	0I-3	25.4681		02-12-68	2150	ETH -C		1.000	9.9+19			
271			VRS	0087	53.0447		01-08-68	0142	2DTH-KE		1.000	4.9+20			
307			FLXMON	0001	923.1517		10-20-64	0526	3BTH-KW		1.000	1.2+22			
372			S-CON	0S-2	222.9786		06-09-67	0038	3CTH-KE		1.000	2.8+21			
372			S-CON	0S-3	222.9786		06-09-67	0038	3CTH-KE		1.000	2.8+21			
376			VRS	0001	132.1089		09-22-67	0608	2DTH-KE	6-2273	1.000	1.2+21			
376		VRS	0002	132.1089		09-22-67	0608	2DTH-KE	6-2272	1.000	1.2+21				

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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 ARE IN PROGRESS,														
376		VRS	0003	132.1089		09-22-67	0608	2DTH-KE	6-2271	1.000	1.2+21			
376		VRS	0004	132.1089		09-22-67	0608	2DTH-KE	6-2270	1.000	1.2+21			
376		VRS	0005	132.1089		09-22-67	0608	2DTH-KE	6-2269	1.000	1.2+21			
376		VRS	0006	132.1089		09-22-67	0608	2DTH-KE	6-2268	1.000	1.2+21			
376		VRS	0007	132.1089		09-22-67	0608	2DTH-KE	6-2267	1.000	1.2+21			
376		VRS	0008	132.1089		09-22-67	0608	2DTH-KE	6-2266	1.000	1.2+21			
376		VRS	0009	132.1089		09-22-67	0608	2DTH-KE	6-2265	1.000	1.2+21			
376		VRS	0010	132.1089		09-22-67	0608	2DTH-KE	6-2264	1.000	1.2+21			
376		VRS	0011	132.1089		09-22-67	0608	2DTH-KE	6-2263	1.000	1.2+21			
376		VRS	0012	132.1089		09-22-67	0608	2DTH-KE	6-2262	1.000	1.2+21			
376		VRS	0013	132.1089		09-22-67	0608	2DTH-KE	6-2261	1.000	1.2+21			
376		VRS	0014	132.1089		09-22-67	0608	2DTH-KE	6-2260	1.000	1.2+21			
376		VRS	0015	132.1089		09-22-67	0608	2DTH-KE	6-2259	1.000	1.2+21			
376		VRS	0016	132.1089		09-22-67	0608	2DTH-KE	6-2258	1.000	1.2+21			

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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 ARE AWAITING DISPOSITION.														
184		VRS	2783	7.7500		12-22-67	1030	2ATH-KW		1.000	1.3+19	12-30-67	0430	
184		VRS	2784	7.7500		12-22-67	1030	2ATH-KW		1.000	5.2+18	12-30-67	0430	
222		UO	P-11	136.6591		09-16-67	1356	3674-KW		1.000	2.2+21	02-25-68	0209	
222		U	P-16	145.9636		02-08-67	0745	3674-KW		1.000	2.3+21	08-08-67	0745	
222		U	P-14	93.8213		05-27-67	1452	3865-KW		1.000	1.5+21	09-13-67	2312	
222		U	P-18	78.2542		10-09-67	0335	3865-KW		1.000	1.3+21	12-30-67	0000	
243		VRS	164R	1.9479		02-28-68	1000	4CTH-KW		1.000	2.5+19	03-01-68	0845	

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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														
172	DECLASSIFIED	VRS	1403	.0035	03-06-68	1425	ATH -C		1.000	8.9+15	03-06-68	1430	03-08-68	
172		SALT	1374	1.0035	03-01-68	0950	2ATH-KW		1.000	1.7+18	03-02-68	0955	03-12-68	
172		SALT	1375	1.0035	03-01-68	0950	2ATH-KW		1.000	1.7+18	03-02-68	0955	03-12-68	
172		SALT	1376	1.0035	03-01-68	0950	2ATH-KW		1.000	8.5+17	03-02-68	0955	03-12-68	
172		SALT	1377	1.0035	03-01-68	0950	2ATH-KW		1.000	8.5+17	03-02-68	0955	03-12-68	
172		SALT	1378	1.0035	03-01-68	0950	2ATH-KW		1.000	7.6+17	03-02-68	0955	03-12-68	
172		SALT	1379	1.0035	03-01-68	0950	2ATH-KW		1.000	6.8+17	03-02-68	0955	03-12-68	
172		FISH	1397	.0208	03-04-68	0930	2ATH-KW		1.000	1.4+16	03-04-68	1000	03-04-68	
172		STD	1398	.0208	03-08-68	1015	2ATH-KW		1.000	1.4+16	03-08-68	1045	03-08-68	
172		FIL	1399	.0208	03-04-68	2025	2ATH-KW		1.000	1.9+17	03-04-68	2055	03-08-68	
172		VRS	1410	1.0000	03-08-68	1320	2ATH-KW		1.000	6.8+17	03-09-68	1320	03-10-68	
172		VRS	1411	1.0000	03-08-68	1320	2ATH-KW		1.000	7.6+17	03-09-68	1320	03-10-68	
172		VRS	1412	1.0000	03-08-68	1320	2ATH-KW		1.000	8.5+17	03-09-68	1320	03-10-68	
172		VRS	1413	1.0000	03-08-68	1320	2ATH-KW		1.000	8.5+17	03-09-68	1320	03-10-68	
172		VRS	1414	1.0000	03-08-68	1320	2ATH-KW		1.000	1.7+18	03-09-68	1320	03-10-68	
172		VRS	1415	1.0000	03-08-68	1320	2ATH-KW		1.000	1.7+18	03-09-68	1320	03-10-68	
172		VRS	1416	.0417	03-10-68	0845	2ATH-KW		1.000	3.9+17	03-10-68	0945	03-10-68	
172		VRS	1417	.0417	03-10-68	0845	2ATH-KW		1.000	3.9+17	03-10-68	0945	03-10-68	
172		VRS	1418	.0417	03-10-68	0845	2ATH-KW		1.000	3.9+17	03-10-68	0945	03-10-68	
172		VRS	1419	.0417	03-10-68	0845	2ATH-KW		1.000	3.9+17	03-10-68	0945	03-10-68	
172		VRS	1420	.0417	03-10-68	0845	2ATH-KW		1.000	3.9+17	03-10-68	0945	03-10-68	
172		VRS	1421	.0417	03-10-68	0845	2ATH-KW		1.000	3.9+17	03-10-68	0945	03-10-68	
172		VRS	1422	.0417	03-10-68	0845	2ATH-KW		1.000	3.9+17	03-10-68	0945	03-10-68	
172		FIL	1380	.0208	03-01-68	1045	2DTH-KE		1.000	1.9+17	03-01-68	1115	03-01-68	
172		FIL	1381	.0208	03-01-68	1045	2DTH-KE		1.000	1.9+17	03-01-68	1115	03-01-68	
172		FIL	1382	.0208	03-01-68	1045	2DTH-KE		1.000	1.9+17	03-01-68	1115	03-01-68	
172		FIL	1383	.0208	03-01-68	1045	2DTH-KE		1.000	1.9+17	03-01-68	1115	03-01-68	
172		FIL	1384	.0208	03-01-68	1045	2DTH-KE		1.000	1.9+17	03-01-68	1115	03-01-68	
172		FIL	1385	.0208	03-01-68	1320	2DTH-KE		1.000	1.9+17	03-01-68	1350	03-01-68	
172		FIL	1386	.0208	03-01-68	1320	2DTH-KE		1.000	1.9+17	03-01-68	1350	03-01-68	
172		FIL	1387	.0208	03-01-68	1320	2DTH-KE		1.000	1.9+17	03-01-68	1350	03-01-68	
172		FIL	1388	.0208	03-01-68	1320	2DTH-KE		1.000	1.9+17	03-01-68	1350	03-01-68	
172		FIL	1389	.0208	03-01-68	1320	2DTH-KE		1.000	1.9+17	03-01-68	1350	03-01-68	
172		WATER	1390	2.0000	03-03-68	1445	2DTH-KE		1.000	1.9+19	03-05-68	1445	03-08-68	
172		WATER	1391	2.0000	03-03-68	1445	2DTH-KE		1.000	1.9+19	03-05-68	1445	03-08-68	
172		WATER	1392	2.0000	03-03-68	1445	2DTH-KE		1.000	1.9+19	03-05-68	1445	03-08-68	
172		WATER	1393	2.0000	03-03-68	1445	2DTH-KE		1.000	1.9+19	03-05-68	1445	03-08-68	
172		WATER	1394	2.0000	03-03-68	1445	2DTH-KE		1.000	1.9+19	03-05-68	1445	03-08-68	

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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														
172	DECLASSIFIED	WATER	1395	2.0000		03-03-68	1445	2DTH-KE		1.000	1.9+19	03-05-68	1445	03-08-68
172		WATER	1396	2.0000		03-03-68	1445	2DTH-KE		1.000	1.9+19	03-05-68	1445	03-08-68
172		VRS	1400	.0868		03-06-68	0950	2DTH-KE		1.000	1.5+17	03-06-68	1155	03-08-68
172		VRS	1401	.2500		03-06-68	1315	2DTH-KE		1.000	1.9+17	03-06-68	1915	03-08-68
172		VRS	1402	.2500		03-06-68	1315	2DTH-KE		1.000	2.1+17	03-06-68	1915	03-08-68
172		SALT	1404	1.0014		03-07-68	1450	2DTH-KE		1.000	1.7+18	03-08-68	1452	03-10-68
172		SALT	1405	1.0014		03-07-68	1450	2DTH-KE		1.000	1.7+18	03-08-68	1452	03-10-68
172		SALT	1406	1.0014		03-07-68	1450	2DTH-KE		1.000	8.5+17	03-08-68	1452	03-10-68
172		SALT	1407	1.0014		03-07-68	1450	2DTH-KE		1.000	8.5+17	03-08-68	1452	03-10-68
172		SALT	1408	1.0014		03-07-68	1450	2DTH-KE		1.000	7.6+17	03-08-68	1452	03-10-68
172		SALT	1409	1.0014		03-07-68	1450	2DTH-KE		1.000	6.8+17	03-08-68	1452	03-10-68
184		PLAS	0C-1	.0007		02-26-68	1512	ATH -C		1.000	1.1+15	02-26-68	1513	02-27-68
184		PLAS	0C-2	.8333		02-29-68	1330	ATH -C		1.000	3.4+18	03-01-68	0930	03-08-68
184		CHAR	0C-3	.8507		03-05-68	1725	ATH -C		1.000	3.5+18	03-06-68	1350	03-08-68
184		CHAR	0C-4	.9444		03-06-68	1440	ATH -C		1.000	3.8+18	03-07-68	1320	03-08-68
184		VRS	0C-5	.8750		03-07-68	1355	ATH -C		1.000	3.6+18	03-08-68	1055	03-08-68
184		CHAR	0C-6	.9444		03-08-68	1130	ATH -C		1.000	3.8+18	03-09-68	1010	03-09-68
184		PLAS	0C-7	.0007		03-10-68	1030	ATH -C		1.000	1.1+15	03-10-68	1031	03-11-68
184		VRS	2940	.8750		02-29-68	0950	2ATH-KW		1.000	8.1+18	03-01-68	0650	03-01-68
184		VRS	2941	.8750		02-29-68	0950	2ATH-KW		1.000	8.1+18	03-01-68	0650	03-01-68
184		VRS	2942	.8437		03-03-68	1030	2ATH-KW		1.000	7.9+18	03-04-68	0645	03-04-68
184		VRS	2943	.8437		03-03-68	1030	2ATH-KW		1.000	7.9+18	03-04-68	0645	03-04-68
184		VRS	2944	.8090		03-04-68	1120	2ATH-KW		1.000	7.5+18	03-05-68	0645	03-05-68
184		VRS	2945	.8090		03-04-68	1120	2ATH-KW		1.000	7.5+18	03-05-68	0645	03-05-68
184		VRS	2946	.8576		03-05-68	1010	2ATH-KW		1.000	8.0+18	03-06-68	0645	03-06-68
184		VRS	2947	.8576		03-05-68	1010	2ATH-KW		1.000	8.0+18	03-06-68	0645	03-06-68
184		VRS	2948	.8646		03-06-68	1000	2ATH-KW		1.000	8.0+18	03-07-68	0645	03-07-68
184		VRS	2949	.8611		03-07-68	1005	2ATH-KW		1.000	8.0+18	03-08-68	0645	03-08-68
184		VRS	2950	.8611		03-07-68	1005	2ATH-KW		1.000	8.0+18	03-08-68	0645	03-08-68
184		VRS	2935	.8750		02-25-68	0945	2DTH-KE		1.000	8.1+18	02-26-68	0645	02-26-68
184		VRS	2936	.8750		02-25-68	0945	2DTH-KE		1.000	8.1+18	02-26-68	0645	02-26-68
184		VRS	2937	.4236		02-26-68	2030	2DTH-KE		1.000	7.2+17	02-27-68	0640	02-27-68
184		VRS	2938	1.0361		02-28-68	0553	2DTH-KE		1.000	9.6+18	02-28-68	0645	02-28-68
184		VRS	2939	1.0361		02-28-68	0553	2DTH-KE		1.000	9.6+18	02-28-68	0645	02-28-68
184		VRS	2951	.8229		03-10-68	1100	2DTH-KE		1.000	7.7+18	03-11-68	0645	03-11-68
184		VRS	2952	.8229		03-10-68	1100	2DTH-KE		1.000	7.7+18	03-11-68	0645	03-11-68
184		PLAS	6432	.0007		02-27-68	1004	2DTH-KE		1.000	5.9+14	02-27-68	1005	02-28-68
243		VARIOS	0132	262.6189		03-14-66	2222	4CTH-KW		1.000	3.1+21	09-13-67	2312	02-24-68

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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 WERE SHIPPED DURING THE MONTH														
243		MOLY	0160	20.4826		10-20-67	0930	4CTH-KW		1.000	2.6+20	12-04-67	0045	02-24-68
243		VRS	164J	25.1528		01-15-68	0935	4CTH-KW		1.000	3.2+20	02-09-68	1315	03-06-68
243		VRS	165J	25.1528		01-15-68	0935	4CTH-KW		1.000	3.2+20	02-09-68	1315	03-06-68
243		VRS	166J	25.1528		01-15-68	0935	4CTH-KW		1.000	3.2+20	02-09-68	1315	03-06-68
243		VRS	167J	25.1528		01-15-68	0935	4CTH-KW		1.000	3.2+20	02-09-68	1315	03-06-68
243		VRS	168J	25.1528		01-15-68	0935	4CTH-KW		1.000	3.2+20	02-09-68	1315	03-06-68
243		VRS	169J	25.1528		01-15-68	0935	4CTH-KW		1.000	3.2+20	02-09-68	1315	03-06-68
243		VRS	170J	25.1528		01-15-68	0935	4CTH-KW		1.000	3.2+20	02-09-68	1315	03-06-68
243		VRS	171J	25.1528		01-15-68	0935	4CTH-KW		1.000	3.2+20	02-09-68	1315	03-06-68
271		DEP-U	0086	3.0347		02-22-68	1310	2ATH-KW		1.000	2.8+19	02-25-68	1400	02-26-68

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