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TITLE

STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF APRIL 13, 1969

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STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF APRIL 13, 1969

L. V. Barker

April 28, 1969

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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

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		GRAPH	A0J3	479.5716		02-12-68	2150	BTH -C	0-2068	1.000	3.2*21			
177		GRAPH	A0J4	479.5716		02-12-68	2150	BTH -C	0-2065	1.000	3.2*21			
177		GRAPH	B0J6	146.5314		09-13-68	1100	BTH -C	0-2074	1.000	9.9*20			
177		GRAPH	B0J7	146.5314		09-13-68	1100	BTH -C	0-2077	1.000	9.9*20			
177		GRAPH	B0J8	146.5314		09-13-68	1100	BTH -C	0-2071	1.000	9.9*20			
177		GRAPH	B0K6	146.5314		09-13-68	1100	BTH -C	0-2080	1.000	9.9*20			
177		GRAPH	00J2	316.6357		02-12-68	2150	BTH -C	0-2059	1.000	2.1*21			
177		GRAPH	00K9	316.6357		02-12-68	2150	BTH -C	0-2062	1.000	2.1*21			
177		GRAPH	A0A6	445.5269		09-22-67	0608	3ATH-KE	0-2984	1.000	4.0*21			
177		GRAPH	A0D2	445.5269		09-22-67	0608	3ATH-KE	0-2977	1.000	4.0*21			
177		GRAPH	A0D3	445.5269		09-22-67	0608	3ATH-KE	0-2981	1.000	4.0*21			
177	BNW-177	GRAPH	0C-6	55.8168		01-25-69	0856	4BTH-KE	0-4366	1.000	6.1*20			
177	BNW-177	GRAPH	0140	55.8168		01-25-69	0856	4BTH-KE	0-4379	1.000	6.1*20			
177	BNW-177	GRAPH	0143	55.8168		01-25-69	0856	4BTH-KE	0-4376	1.000	6.1*20			
177	BNW-177	GRAPH	0188	55.8168		01-25-69	0856	4BTH-KE	0-4363	1.000	6.1*20			
177	BNW-177	GRAPH	0189	55.8168		01-25-69	0856	4BTH-KE	0-4357	1.000	6.1*20			
177	BNW-177	GRAPH	0190	55.8168		01-25-69	0856	4BTH-KE	0-4373	1.000	6.1*20			
177	BNW-177	GRAPH	0191	55.8168		01-25-69	0856	4BTH-KE	0-4369	1.000	6.1*20			
177	BNW-177	GRAPH	0192	55.8168		01-25-69	0856	4BTH-KE	0-4354	1.000	6.1*20			
177	BNW-177	GRAPH	0193	55.8168		01-25-69	0856	4BTH-KE	0-4360	1.000	6.1*20			
236		SS	1V36	212.2988		06-11-68	1400	3CTH-KW		1.000	2.4*21			
236		ZIRC	4-30	333.4382		01-14-68	2019	3CTH-KW		1.000	4.0*21			
236		ZIRC	4-25	333.4382		01-14-68	2019	3DTH-KW		1.000	2.9*21			
243		CARBON	0177	99.2522		10-24-68	1345	4CTH-KW		1.000	1.1*21			
243		CARBON	0178	103.2842		10-24-68	1345	4CTH-KW		1.000	1.1*21			
243	BNW-243	TENSIL	0181	46.9258		02-13-69	1320	4CTH-KW		1.000	5.2*20			
259		HASTLY	0A-G	1136.6463		12-25-64	2255	ETH -C	0-2177	1.000	4.4*21			
259		HASTLY	0A-H	1136.6463		12-25-64	2255	ETH -C	0-2175	1.000	4.4*21			
271	BNW-271	VRS	0122	6.5729		04-07-69	1015	2ATH-KW		1.000	5.6*19			
392	BNW-392	PU	0001	10.6319		04-03-69	0850	2BTH-KW		1.000	1.2*20			

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PAGE NO. 4														
IDENTIFICATION				OPERATING TIME (DAYS)		C M K ABSORBED	CHARGE		LOCATION			DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.				DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR	EXPOSURE TO DATE NVT	DATE	TIME
THE FOLLOWING IRRADIATIONS ARE AWAITING DISPOSITION.														
222		U	P22	96.4466			11-28-68	0250	3674-KW		1.000	1,3*21	03-16-69	1800
222		U	P23	96.4466			11-28-68	0250	3674-KW		1.000	1,3*21	03-16-69	1800
243		VRS	0172	115.3774			07-30-68	1455	4CTH-KW		1.000	1,3*21	02-24-69	1350
376		VRS	0001	412.4546			09-22-67	0608	2DTH-KE	6-2273	1.000	3,7*21	02-17-69	1712
376		VRS	0002	412.4546			09-22-67	0608	2DTH-KE	6-2272	1.000	3,7*21	02-17-69	1712
376		VRS	0003	412.4546			09-22-67	0608	2DTH-KE	6-2271	1.000	3,7*21	02-17-69	1712
376		VRS	0004	412.4546			09-22-67	0608	2DTH-KE	6-2270	1.000	3,7*21	02-17-69	1712
376		VRS	0005	412.4546			09-22-67	0608	2DTH-KE	6-2269	1.000	3,7*21	02-17-69	1712
376		VRS	0006	412.4546			09-22-67	0608	2DTH-KE	6-2268	1.000	3,7*21	02-17-69	1712
376		VRS	0007	412.4546			09-22-67	0608	2DTH-KE	6-2267	1.000	3,7*21	02-17-69	1712
376		VRS	0008	412.4546			09-22-67	0608	2DTH-KE	6-2266	1.000	3,7*21	02-17-69	1712
376		VRS	0009	412.4546			09-22-67	0608	2DTH-KE	6-2265	1.000	3,7*21	02-17-69	1712
376		VRS	0010	412.4546			09-22-67	0608	2DTH-KE	6-2264	1.000	3,7*21	02-17-69	1712
376		VRS	0011	412.4546			09-22-67	0608	2DTH-KE	6-2263	1.000	3,7*21	02-17-69	1712
376		VRS	0012	412.4546			09-22-67	0608	2DTH-KE	6-2262	1.000	3,7*21	02-17-69	1712
376		VRS	0013	412.4546			09-22-67	0608	2DTH-KE	6-2261	1.000	3,7*21	02-17-69	1712
376		VRS	0014	412.4546			09-22-67	0608	2DTH-KE	6-2260	1.000	3,7*21	02-17-69	1712
376		VRS	0015	412.4546			09-22-67	0608	2DTH-KE	6-2259	1.000	3,7*21	02-17-69	1712
376		VRS	0016	412.4546			09-22-67	0608	2DTH-KE	6-2258	1.000	3,7*21	02-17-69	1712

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THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MON TH

IDENTIFICATION			C M K ABSORBED	CHARGE			LOCATION		EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL		DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MON TH												
1772	BNW-1772	VRS	1818	1.0000	03-26-69	1925	ATH -C	1.000	1.1*18	03-27-69	1925	03-28-69
1772	BNW-1772	VRS	1819	1.0000	03-26-69	1925	ATH -C	1.000	1.5*18	03-27-69	1925	03-28-69
1772	BNW-1772	VRS	1820	.2500	03-30-69	0900	ATH -C	1.000	3.8*17	03-30-69	1500	03-31-69
1772	BNW-1772	VRS	1821	1.0833	04-01-69	1100	ATH -C	1.000	2.7*18	04-02-69	1300	04-03-69
1772	BNW-1772	VRS	1822	.0208	04-02-69	1936	ATH -C	1.000	3.2*16	04-02-69	2006	04-04-69
1772	BNW-1772	RIO	1823	.0208	04-05-69	1100	2ATH-KW	1.000	1.8*17	04-05-69	1130	04-06-69
1772	BNW-1772	RIO	1824	.0208	04-05-69	1100	2ATH-KW	1.000	1.8*17	04-05-69	1130	04-06-69
1772	BNW-1772	RIO	1825	.0208	04-05-69	1100	2ATH-KW	1.000	1.8*17	04-05-69	1130	04-06-69
1772	BNW-1772	RIO	1826	.0208	04-05-69	1100	2ATH-KW	1.000	1.8*17	04-05-69	1130	04-06-69
1772	BNW-1772	RIO	1827	.0208	04-05-69	1100	2ATH-KW	1.000	1.8*17	04-05-69	1130	04-06-69
184	BNW-184	PLASTIC	6484	.0007	03-30-69	0856	ATH -C	1.000	1.1*15	03-30-69	0857	03-31-69
184	BNW-184	PLASTIC	6485	.0007	03-30-69	0858	ATH -C	1.000	1.1*15	03-30-69	0859	03-31-69
184	BNW-184	PLASTIC	6486	.0007	04-01-69	1059	ATH -C	1.000	1.1*15	04-01-69	1100	04-02-69
184	BNW-184	PLASTIC	6187	.0007	04-11-69	1735	ATH -C	1.000	1.1*15	04-11-69	1736	04-14-69
184	BNW-184	VRS	3311	.9201	03-31-69	0840	2ATH-KW	1.000	7.8*18	04-01-69	0645	04-01-69
184	BNW-184	VRS	3312	.9201	03-31-69	0840	2ATH-KW	1.000	7.8*18	04-01-69	0645	04-01-69
184	BNW-184	VRS	3313	.8437	04-01-69	1030	2ATH-KW	1.000	1.4*18	04-02-69	0645	04-02-69
184	BNW-184	VRS	3314	.8437	04-01-69	1030	2ATH-KW	1.000	1.4*18	04-02-69	0645	04-02-69
184	BNW-184	VRS	3315	.8715	04-02-69	0950	2ATH-KW	1.000	7.4*18	04-03-69	0645	04-03-69
184	BNW-184	VRS	3316	.8715	04-02-69	0950	2ATH-KW	1.000	7.4*18	04-03-69	0645	04-03-69
184	BNW-184	VRS	3317	.8958	04-06-69	0915	2ATH-KW	1.000	7.6*18	04-07-69	0645	04-07-69
184	BNW-184	VRS	3318	.8958	04-06-69	0915	2ATH-KW	1.000	7.6*18	04-07-69	0645	04-07-69
184	BNW-184	VRS	3319	.8437	04-09-69	1030	2ATH-KW	1.000	7.1*18	04-10-69	0645	04-10-69
184	BNW-184	VRS	3320	.8437	04-09-69	1030	2ATH-KW	1.000	7.1*18	04-10-69	0645	04-10-69
184	BNW-184	VRS	3321	.8507	04-10-69	1020	2ATH-KW	1.000	7.2*18	04-11-69	0645	04-11-69
184	BNW-184	VRS	3322	.8507	04-10-69	1020	2ATH-KW	1.000	7.2*18	04-11-69	0645	04-11-69
184	BNW-184	VRS	3305	.8542	03-23-69	1020	2DTH-KE	1.000	7.2*18	03-24-69	0650	03-24-69
184	BNW-184	VRS	3306	.8542	03-23-69	1020	2DTH-KE	1.000	7.2*18	03-24-69	0650	03-24-69
184	BNW-184	VRS	3307	.8472	03-24-69	1025	2DTH-KE	1.000	7.2*18	03-25-69	0645	03-25-69
184	BNW-184	VRS	3308	.8472	03-24-69	1025	2DTH-KE	1.000	7.2*18	03-25-69	0645	03-25-69
184	BNW-184	VRS	3309	.9132	03-26-69	0850	2DTH-KE	1.000	7.7*18	03-27-69	0645	03-27-69
184	BNW-184	VRS	3310	.9132	03-26-69	0850	2DTH-KE	1.000	7.7*18	03-27-69	0645	03-27-69
271	BNW-271	RU CE	0121	3.8641	04-03-69	1015	2ATH-KW	1.000	3.3*19	04-07-69	0645	04-08-69
271	BNW-271	VRS	0123	2.9653	04-10-69	1020	2ATH-KW	1.000	2.5*19	04-13-69	0930	04-14-69
309	BNW-309	PU	001A	.1667	04-01-69	0950	2BTH-KW	1.000	1.8*18	04-01-69	1350	04-07-69
388	BNW-388	SS	0001	.0208	04-08-69	1705	ATH -C	1.000	8.4*16	04-08-69	1745	04-14-69
391	BNW-391	PU	0001	.4861	03-25-69	1035	2BTH-KW	1.000	5.3*18	03-25-69	2215	03-27-69