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**Prepared for the U.S. Department of Energy
under Contract DE-AC06-76RLO 1830**

**Pacific Northwest Laboratory
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TITLE

STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF OCTOBER 13, 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 OCTOBER 13, 1968

L. V. Barker

October 24, 1968

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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)	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		GRAPH	A0J3	350.7249		02-12-68	2150	BTH-C	0-2068	1.000	2.4+21			
177		GRAPH	A0J4	350.7249		02-12-68	2150	BTH-C	0-2065	1.000	2.4+21			
177		GRAPH	B0J6	17.6847		09-13-68	1100	BTH-C	0-2074	1.000	1.2+20			
177		GRAPH	B0J7	17.6847		09-13-68	1100	BTH-C	0-2077	1.000	1.2+20			
177		GRAPH	B0J8	17.6847		09-13-68	1100	BTH-C	0-2071	1.000	1.2+20			
177		GRAPH	B0K6	17.6847		09-13-68	1100	BTH-C	0-2080	1.000	1.2+20			
177		GRAPH	00J2	187.7890		02-12-68	2150	BTH-C	0-2059	1.000	1.3+21			
177		GRAPH	00K9	187.7890		02-12-68	2150	BTH-C	0-2062	1.000	1.3+21			
177		GRAPH	A0A6	305.4400		09-22-67	0608	3ATH-KE	0-2984	1.000	2.8+21			
177		GRAPH	A0D2	305.4400		09-22-67	0608	3ATH-KE	0-2977	1.000	2.8+21			
177		GRAPH	A0D3	305.4400		09-22-67	0608	3ATH-KE	0-2981	1.000	2.8+21			
222		U	P21	42.4805		08-24-68	2324	3CTH-KE		1.000	5.0+20			
222		U	P-19	79.7118		05-18-68	0345	3674-KW		1.000	1.2+21			
222		U	P-20	79.7118		05-18-68	0345	3674-KW		1.000	1.2+21			
236		ZR-NB	IV29	116.5923		04-01-68	0630	3ATH-KW		1.000	1.0+21			
236		ZR	4-28	339.9028		08-13-67	0615	3ATH-KE		1.000	3.1+21			
236		ZR-NB	IV31	116.5923		04-01-68	0630	3BTH-KW		1.000	1.4+21			
236		SS	1V36	64.2070		06-11-68	1400	3CTH-KW		1.000	7.8+20			
236		ZIRC	4-30	185.3464		01-14-68	2019	3CTH-KW		1.000	2.3+21			
236		ZIRC	4-25	185.3464		01-14-68	2019	3DTH-KW		1.000	1.7+21			
243		VRS	0172	31.9469		07-30-68	1455	4CTH-KW		1.000	3.9+20			
259		HASTLY	0A-G	1007.7996		12-25-64	2255	ETH-C	0-2177	1.000	3.9+21			
259		HASTLY	0A-H	1007.7996		12-25-64	2255	ETH-C	0-2175	1.000	3.9+21			
259		HAST	0I-3	187.7895		02-12-68	2150	ETH-C		1.000	7.3+20			
307		FLXMON	0001	1055.1821		10-20-64	0526	3BTH-KW		1.000	1.3+22			
376	DECLASSIFIED	VRS	0001	304.8400		09-22-67	0608	2DTH-KE	6-2273	1.000	2.8+21			
376		VRS	0002	304.8400		09-22-67	0608	2DTH-KE	6-2272	1.000	2.8+21			
376		VRS	0003	304.8400		09-22-67	0608	2DTH-KE	6-2271	1.000	2.8+21			
376		VRS	0004	304.8400		09-22-67	0608	2DTH-KE	6-2270	1.000	2.8+21			
376		VRS	0005	304.8400		09-22-67	0608	2DTH-KE	6-2269	1.000	2.8+21			
376		VRS	0006	304.8400		09-22-67	0608	2DTH-KE	6-2268	1.000	2.8+21			
376		VRS	0007	304.8400		09-22-67	0608	2DTH-KE	6-2267	1.000	2.8+21			
376		VRS	0008	304.8400		09-22-67	0608	2DTH-KE	6-2266	1.000	2.8+21			
376		VRS	0009	304.8400		09-22-67	0608	2DTH-KE	6-2265	1.000	2.8+21			
376		VRS	0010	304.8400		09-22-67	0608	2DTH-KE	6-2264	1.000	2.8+21			
376		VRS	0011	304.8400		09-22-67	0608	2DTH-KE	6-2263	1.000	2.8+21			
376		VRS	0012	304.8400		09-22-67	0608	2DTH-KE	6-2262	1.000	2.8+21			
376		VRS	0013	304.8400		09-22-67	0608	2DTH-KE	6-2261	1.000	2.8+21			

DECLASSIFIED

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	0014	304,8400		09-22-67	0608	2DTH-KE	6-2260	1.000	2.8*21				
376		VRS	0015	304,8400		09-22-67	0608	2DTH-KE	6-2259	1.000	2.8*21				
376		VRS	0016	304,8400		09-22-67	0608	2DTH-KE	6-2258	1.000	2.8*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.														
222		U	P-12	116,5923		04-01-68	0630	3865-KW			1.000	1.8+21	10-04-68	2100
222		U	P-13	116,5923		04-01-68	0630	3865-KW			1.000	1.8+21	10-04-68	2100
222		U	P-17	116,5923		04-01-68	0630	3865-KW			1.000	1.8+21	10-04-68	2100
236		STEEL	4-14	899,1821		02-28-65	1432	2CTH-KW			1.000	1.1+22	10-04-68	2100
243		VRS	0162	31,9469		07-30-68	1455	4CTH-KW			1.000	3.9+20	10-04-68	2100
243		VRS	0174	12,0694		07-30-68	1455	4CTH-KW			1.000	1.5+20	09-01-68	1500
243		VRS	0175	21,0659		07-30-68	1455	4CTH-KW			1.000	2.6+20	09-19-68	1325
243		VRS	0176	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	DECLASSIFIED	WATER	1601	0208		09-25-68	0904	ATH -C		1.000	5.3+16	09-25-68	0934	09-26-68
172		WATER	1602	0208		09-25-68	0936	ATH -C		1.000	5.3+16	09-25-68	1006	09-26-68
172		SALTS	1611	9896		10-09-68	1315	ATH -C		1.000	1.5+18	10-10-68	1300	10-12-68
172		SALTS	1612	9896		10-09-68	1315	ATH -C		1.000	2.5+18	10-10-68	1300	10-12-68
172		SALTS	1613	9896		10-09-68	1315	ATH -C		1.000	3.1+18	10-10-68	1300	10-12-68
172		SALTS	1614	1.0000		10-10-68	1330	ATH -C		1.000	1.1+18	10-11-68	1330	10-14-68
172		SALTS	1615	1.0000		10-10-68	1330	ATH -C		1.000	1.5+18	10-11-68	1330	10-14-68
172		SALTS	1616	1.0000		10-10-68	1330	ATH -C		1.000	2.5+18	10-11-68	1330	10-14-68
172		SALTS	1617	2.0764		10-11-68	1430	ATH -C		1.000	5.3+18	10-13-68	1620	10-15-68
172		SALTS	1618	2.0764		10-11-68	1430	ATH -C		1.000	3.2+18	10-13-68	1620	10-15-68
172		WATER	1593	0208		09-21-68	0923	2ATH-KW		1.000	1.8+17	09-21-68	0953	09-22-68
172		WATER	1594	0208		09-21-68	0923	2ATH-KW		1.000	1.8+17	09-21-68	0953	09-22-68
172		WATER	1595	0208		09-21-68	0923	2ATH-KW		1.000	1.8+17	09-21-68	0953	09-22-68
172		WATER	1596	0208		09-21-68	0923	2ATH-KW		1.000	1.8+17	09-21-68	0953	09-22-68
172		WATER	1597	0208		09-21-68	0923	2ATH-KW		1.000	1.8+17	09-21-68	0953	09-22-68
172		WATER	1598	0208		09-21-68	0923	2ATH-KW		1.000	1.8+17	09-21-68	0953	09-22-68
172		WATER	1599	0208		09-21-68	0923	2ATH-KW		1.000	1.8+17	09-21-68	0953	09-22-68
172		WATER	1600	0208		09-21-68	0923	2ATH-KW		1.000	1.8+17	09-21-68	0953	09-22-68
172		WATER	1603	0208		09-28-68	0907	2ATH-KW		1.000	1.8+17	09-28-68	0937	09-29-68
172		WATER	1604	0208		09-28-68	0907	2ATH-KW		1.000	1.8+17	09-28-68	0937	09-29-68
172		WATER	1605	0208		09-28-68	0907	2ATH-KW		1.000	1.8+17	09-28-68	0937	09-29-68
172		WATER	1606	0208		09-28-68	0907	2ATH-KW		1.000	1.8+17	09-28-68	0937	09-29-68
172		WATER	1607	0208		09-28-68	0907	2ATH-KW		1.000	1.8+17	09-28-68	0937	09-29-68
172		WATER	1608	0208		09-28-68	0907	2ATH-KW		1.000	1.8+17	09-28-68	0937	09-29-68
172		WATER	1609	0208		09-28-68	0907	2ATH-KW		1.000	1.8+17	09-28-68	0937	09-29-68
172		WATER	1610	0208		09-28-68	0907	2ATH-KW		1.000	1.8+17	09-28-68	0937	09-29-68
172		BIO	1619	0208		10-12-68	1058	2DTH-KE		1.000	1.8+17	10-12-68	1128	10-15-68
172		BIO	1620	0208		10-12-68	1058	2DTH-KE		1.000	1.8+17	10-12-68	1128	10-15-68
172		BIO	1621	0208		10-12-68	1058	2DTH-KE		1.000	1.8+17	10-12-68	1128	10-15-68
172		BIO	1622	0208		10-12-68	1058	2DTH-KE		1.000	1.8+17	10-12-68	1128	10-15-68
172		BIO	1623	0208		10-12-68	1058	2DTH-KE		1.000	1.8+17	10-12-68	1128	10-15-68
172		BIO	1624	0208		10-12-68	1058	2DTH-KE		1.000	1.8+17	10-12-68	1128	10-15-68
172		BIO	1625	0208		10-12-68	1012	2DTH-KE		1.000	3.2+16	10-12-68	1042	10-13-68
184		SALTS	C-38	0007		09-28-68	1435	ATH -C		1.000	1.1+15	09-28-68	1436	09-28-68
184		SALTS	6440	0007		10-05-68	1240	ATH -C		1.000	1.1+15	10-05-68	1041	10-05-68
184		VAR	3146	8854		09-18-68	0930	2ATH-KW		1.000	7.5+18	09-19-68	0645	09-19-68
184		VAR	3147	8854		09-18-68	0930	2ATH-KW		1.000	7.5+18	09-19-68	0645	09-19-68
184		VAR	3148	8750		09-22-68	0945	2ATH-KW		1.000	7.4+18	09-23-68	0645	09-23-68

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IDENTIFICATION				OPERATING TIME (DAYS)	CM 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		VAR	3149	8750		09-22-68	0945	2ATH-KW		1.000	7.4+18	09-23-68	0645	09-23-68
184		VAR	3150	8750		09-23-68	0945	2ATH-KW		1.000	2.7+18	09-24-68	0645	09-24-68
184		VAR	3151	8750		09-23-68	0945	2ATH-KW		1.000	3.6+18	09-24-68	0645	09-24-68
184		VAR	3152	8646		09-24-68	1000	2ATH-KW		1.000	3.5+18	09-25-68	0645	09-25-68
184		VAR	3153	8646		09-24-68	1000	2ATH-KW		1.000	3.5+18	09-25-68	0645	09-25-68
184		VAR	3154	8576		09-26-68	1010	2ATH-KW		1.000	3.5+18	09-27-68	0645	09-27-68
184		VAR	3155	8576		09-26-68	1010	2ATH-KW		1.000	3.5+18	09-27-68	0645	09-27-68
184		VAR	3156	9132		09-29-68	0850	2ATH-KW		1.000	3.7+18	09-30-68	0645	09-30-68
184		VAR	3157	9132		09-29-68	0850	2ATH-KW		1.000	3.7+18	09-30-68	0645	09-30-68
184		VAR	3158	8403		09-30-68	1035	2ATH-KW		1.000	3.4+18	10-01-68	0645	10-01-68
184		VAR	3159	8403		09-30-68	1035	2ATH-KW		1.000	3.4+18	10-01-68	0645	10-01-68
184		VAR	3160	8576		10-01-68	1010	2ATH-KW		1.000	7.3+18	10-02-68	0645	10-02-68
184		VAR	3161	8576		10-01-68	1010	2ATH-KW		1.000	7.3+18	10-02-68	0645	10-02-68
184		VAR	3144	8521		09-17-68	1023	2DTH-KE		1.000	7.2+18	09-18-68	0650	09-18-68
184		VAR	3145	8521		09-17-68	1023	2DTH-KE		1.000	7.2+18	09-18-68	0650	09-18-68
184		VAR	3162	9375		10-06-68	0830	2DTH-KE		1.000	7.9+18	10-07-68	0650	10-07-68
184		VAR	3163	9375		10-06-68	0830	2DTH-KE		1.000	7.9+18	10-07-68	0650	10-07-68
184		VAR	3164	8681		10-07-68	1000	2DTH-KE		1.000	7.3+18	10-08-68	0650	10-08-68
184		VAR	3165	8681		10-07-68	1000	2DTH-KE		1.000	7.3+18	10-08-68	0650	10-08-68
184		VAR	3166	8437		10-09-68	1030	2DTH-KE		1.000	7.1+18	10-10-68	0645	10-10-68
184		VAR	3167	8437		10-09-68	1030	2DTH-KE		1.000	7.1+18	10-10-68	0645	10-10-68
184		SALTS	6439	0139		09-17-68	0959	2DTH-KE		1.000	3.5+16	09-17-68	1019	09-17-68
243		CARBON	DC-2	8.1667		10-01-68	1100	2BTH-KE		1.000	9.0+19	10-09-68	1500	10-11-68
271		DEP-U	105	2.6597		10-04-68	1500	2DTH-KE		1.000	2.3+19	10-07-68	0650	10-12-68

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