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under Contract DE-AC06-76RLO 1830**

**Pacific Northwest Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute**

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STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF MARCH 16, 1969

L. V. Barker

April 10, 1969

Classification Cancelled and Changed To

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By Authority of RM-100
CG-NMP-1 8-3-94

By J E Savely 9-20-94
Verified By Jerri Nally, 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.

LV Barker
Supervisor
Irradiation Testing

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LV Barker/k

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	458,7633		02-12-68	2150	BTH -C	0-2068	1,000	3,1+21			
177		GRAPH	A0J4	458,7633		02-12-68	2150	BTH -C	0-2065	1,000	3,1+21			
177		GRAPH	B0J6	125,7231		09-13-68	1100	BTH -C	0-2074	1,000	8,5+20			
177		GRAPH	B0J7	125,7231		09-13-68	1100	BTH -C	0-2077	1,000	8,5+20			
177		GRAPH	B0J8	125,7231		09-13-68	1100	BTH -C	0-2071	1,000	8,5+20			
177		GRAPH	B0K6	125,7231		09-13-68	1100	BTH -C	0-2080	1,000	8,5+20			
177		GRAPH	00J2	295,8274		02-12-68	2150	BTH -C	0-2059	1,000	2,0+21			
177		GRAPH	00K9	295,8274		02-12-68	2150	BTH -C	0-2062	1,000	2,0+21			
177		GRAPH	A0A6	435,2838		09-22-67	0608	3ATH-KE	0-2984	1,000	3,9+21			
177		GRAPH	A0D2	435,2838		09-22-67	0608	3ATH-KE	0-2977	1,000	3,9+21			
177		GRAPH	A0D3	435,2838		09-22-67	0608	3ATH-KE	0-2981	1,000	3,9+21			
177	BNW-177	GRAPH	0C-6	45,5737		01-25-69	0856	4BTH-KE	0-4366	1,000	5,0+20			
177	BNW-177	GRAPH	0140	45,5737		01-25-69	0856	4BTH-KE	0-4379	1,000	5,0+20			
177	BNW-177	GRAPH	0143	45,5737		01-25-69	0856	4BTH-KE	0-4376	1,000	5,0+20			
177	BNW-177	GRAPH	0188	45,5737		01-25-69	0856	4BTH-KE	0-4363	1,000	5,0+20			
177	BNW-177	GRAPH	0189	45,5737		01-25-69	0856	4BTH-KE	0-4357	1,000	5,0+20			
177	BNW-177	GRAPH	0190	45,5737		01-25-69	0856	4BTH-KE	0-4373	1,000	5,0+20			
177	BNW-177	GRAPH	0191	45,5737		01-25-69	0856	4BTH-KE	0-4369	1,000	5,0+20			
177	BNW-177	GRAPH	0192	45,5737		01-25-69	0856	4BTH-KE	0-4354	1,000	5,0+20			
177	BNW-177	GRAPH	0193	45,5737		01-25-69	0856	4BTH-KE	0-4360	1,000	5,0+20			
236		SS	1V36	191,2189		06-11-68	1400	3CTH-KW		1,000	2,2+21			
236		ZIRC	4-30	312,3583		01-14-68	2019	3CTH-KW		1,000	3,7+21			
236		ZIRC	4-25	312,3583		01-14-68	2019	3DTH-KW		1,000	2,8+21			
243		CARBON	0177	78,1723		10-24-68	1345	4CTH-KW		1,000	8,6+20			
243		CARBON	0178	82,2043		10-24-68	1345	4CTH-KW		1,000	9,0+20			
243	BNW-243	TENSIL	0181	25,8459		02-13-69	1320	4CTH-KW		1,000	2,8+20			
259		HASTLY	0A-G	1115,8380		12-25-64	2255	ETH -C	0-2177	1,000	4,3+21			
259		HASTLY	0A-H	1115,8380		12-25-64	2255	ETH -C	0-2175	1,000	4,3+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	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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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	BNW-172	SEASLT	1773	1,0000		02-17-69	1350	ATH -C		1,000	2,5+18	02-18-69	1350	02-19-69
172	BNW-172	SEASLT	1774	1,0000		02-20-69	0900	ATH -C		1,000	2,5+18	02-21-69	0900	02-22-69
172	BNW-172	SEASLT	1775	1,0000		02-20-69	0900	ATH -C		1,000	1,5+18	02-21-69	0900	02-22-69
172	BNW-172	SEASLT	1793	,9896		03-05-69	1315	ATH -C		1,000	1,5+18	03-06-69	1300	03-13-69
172	BNW-172	SEASLT	1794	,9896		03-05-69	1315	ATH -C		1,000	2,5+18	03-06-69	1300	03-13-69
172	BNW-172	SEASLT	1795	1,0000		03-07-69	1410	ATH -C		1,000	1,5+18	03-08-69	1410	03-13-69
172	BNW-172	SEASLT	1796	1,0000		03-07-69	1410	ATH -C		1,000	2,5+18	03-08-69	1410	03-13-69
172	BNW-172	SEASLT	1805	,0208		03-12-69	0918	ATH -C		1,000	5,3+16	03-12-69	0948	03-13-69
172	BNW-172	SEASLT	1806	,0208		03-12-69	0948	ATH -C		1,000	5,3+16	03-12-69	1018	03-13-69
172	BNW-172	SEASLT	1807	,0208		03-12-69	1018	ATH -C		1,000	5,3+16	03-12-69	1048	03-13-69
172	BNW-172	BASALT	1808	,0208		03-15-69	0949	ATH -C		1,000	3,2+16	03-15-69	1019	03-16-69
172	BNW-172	BIO	1776	,0208		02-22-69	0917	2ATH-KW		1,000	1,8+17	02-22-69	0947	02-23-69
172	BNW-172	BIO	1777	,0208		02-22-69	0917	2ATH-KW		1,000	1,8+17	02-22-69	0947	02-23-69
172	BNW-172	BIO	1778	,0208		02-22-69	0917	2ATH-KW		1,000	1,8+17	02-22-69	0947	02-23-69
172	BNW-172	BIO	1779	,0208		02-22-69	0917	2ATH-KW		1,000	1,8+17	02-22-69	0947	02-23-69
172	BNW-172	BIO	1780	,0208		02-22-69	0917	2ATH-KW		1,000	1,8+17	02-22-69	0947	02-23-69
172	BNW-172	BIO	1781	,0208		02-22-69	1020	2ATH-KW		1,000	1,8+17	02-22-69	1050	02-23-69
172	BNW-172	BIO	1782	,0208		02-22-69	1020	2ATH-KW		1,000	1,8+17	02-22-69	1050	02-23-69
172	BNW-172	BIO	1783	,0208		02-22-69	1020	2ATH-KW		1,000	1,8+17	02-22-69	1050	02-23-69
172	BNW-172	BIO	1784	,0208		02-22-69	1020	2ATH-KW		1,000	1,8+17	02-22-69	1050	02-23-69
172	BNW-172	BIO	1785	,0208		02-22-69	1020	2ATH-KW		1,000	1,8+17	02-22-69	1050	02-23-69
172	BNW-172	BIO	1797	,0208		03-08-69	0840	2ATH-KW		1,000	1,8+17	03-08-69	0910	03-09-69
172	BNW-172	BIO	1798	,0208		03-08-69	0840	2ATH-KW		1,000	1,8+17	03-08-69	0910	03-09-69
172	BNW-172	BIO	1799	,0208		03-08-69	0840	2ATH-KW		1,000	1,8+17	03-08-69	0910	03-09-69
172	BNW-172	BIO	1800	,0208		03-08-69	0840	2ATH-KW		1,000	1,8+17	03-08-69	0910	03-09-69
172	BNW-172	BIO	1801	,0208		03-08-69	0840	2ATH-KW		1,000	1,8+17	03-08-69	0910	03-09-69
172	BNW-172	BIO	1802	,0208		03-08-69	0840	2ATH-KW		1,000	1,8+17	03-08-69	0910	03-09-69
172	BNW-172	BIO	1803	,0208		03-08-69	0840	2ATH-KW		1,000	1,8+17	03-08-69	0910	03-09-69
172	BNW-172	BIO	1804	,0208		03-08-69	0840	2ATH-KW		1,000	1,8+17	03-08-69	0910	03-09-69
172	BNW-172	BIO	1786	,0208		03-01-69	1032	2DTH-KE		1,000	1,8+17	03-01-69	1102	03-02-69
172	BNW-172	BIO	1787	,0208		03-01-69	1032	2DTH-KE		1,000	1,8+17	03-01-69	1102	03-02-69
172	BNW-172	BIO	1788	,0208		03-01-69	1032	2DTH-KE		1,000	1,8+17	03-01-69	1102	03-02-69
172	BNW-172	BIO	1789	,0208		03-01-69	1032	2DTH-KE		1,000	1,8+17	03-01-69	1102	03-02-69
172	BNW-172	BIO	1790	,0208		03-01-69	1032	2DTH-KE		1,000	1,8+17	03-01-69	1102	03-02-69
172	BNW-172	BIO	1791	,0208		03-01-69	1032	2DTH-KE		1,000	1,8+17	03-01-69	1102	03-02-69
172	BNW-172	BIO	1792	,0208		03-01-69	1032	2DTH-KE		1,000	1,8+17	03-01-69	1102	03-02-69
172	BNW-172	BIO	1809	,0208		03-15-69	1337	2DTH-KE		1,000	1,8+17	03-15-69	1407	03-16-69
172	BNW-172	BIO	1810	,0208		03-15-69	1337	2DTH-KE		1,000	1,8+17	03-15-69	1407	03-16-69

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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	BNW-172	BIO	1811	,0208		03-15-69	1337	2DTH-KE		1,000	1,8+17	03-15-69	1407	03-16-69
172	BNW-172	BIO	1812	,0208		03-15-69	1337	2DTH-KE		1,000	1,8+17	03-15-69	1407	03-16-69
172	BNW-172	BIO	1813	,0208		03-15-69	1337	2DTH-KE		1,000	1,8+17	03-15-69	1407	03-16-69
172	BNW-172	BIO	1814	,0208		03-15-69	1337	2DTH-KE		1,000	1,8+17	03-15-69	1407	03-16-69
172	BNW-172	BIO	1815	,0208		03-15-69	1337	2DTH-KE		1,000	1,8+17	03-15-69	1407	03-16-69
172	BNW-172	BIO	1816	,0208		03-15-69	1337	2DTH-KE		1,000	1,8+17	03-15-69	1407	03-16-69
172	BNW-172	BIO	1817	1,0000		03-22-69	0845	2DTH-KE		1,000	8,5+18	03-23-69	0845	03-24-69
177	BNW-177	GRAPH	05-1	1,0832		03-14-69	1315	2BTH-KW		1,000	1,2+19	03-15-69	1410	03-19-69
184	BNW-184	PLASTC	6478	,0007		02-18-69	1913	ATH -C		1,000	1,1+15	02-18-69	1914	02-19-69
184	BNW-184	PLASTC	6480	,0035		03-15-69	0944	ATH -C		1,000	5,3+15	03-15-69	0949	03-16-69
184	BNW-184	PLASTC	6481	,0007		03-19-69	1016	ATH -C		1,000	1,1+15	03-19-69	1017	03-20-69
184	BNW-184	VRS	3276	,0001		02-18-69	0714	2ATH-KW		1,000	1,7+14	02-18-69	0714	02-18-69
184	BNW-184	VRS	3277	,8611		02-18-69	1005	2ATH-KW		1,000	7,3+17	02-19-69	0645	02-19-69
184	BNW-184	VRS	3278	,8611		02-18-69	1005	2ATH-KW		1,000	7,3+17	02-19-69	0645	02-19-69
184	BNW-184	VRS	3279	,8993		02-23-69	0910	2ATH-KW		1,000	7,6+17	02-24-69	0645	02-24-69
184	BNW-184	VRS	3280	,8993		02-23-69	0910	2ATH-KW		1,000	7,6+17	02-24-69	0645	02-24-69
184	BNW-184	VRS	3281	,7951		02-24-69	1015	2ATH-KW		1,000	1,3+18	02-25-69	0645	02-25-69
184	BNW-184	VRS	3282	,7951		02-24-69	1015	2ATH-KW		1,000	1,3+18	02-25-69	0645	02-25-69
184	BNW-184	VRS	3292	,9271		03-09-69	0830	2ATH-KW		1,000	7,8+18	03-10-69	0645	03-10-69
184	BNW-184	VRS	3293	,9271		03-09-69	0830	2ATH-KW		1,000	7,8+18	03-10-69	0645	03-10-69
184	BNW-184	VRS	3294	,8646		03-10-69	1000	2ATH-KW		1,000	1,5+18	03-11-69	0645	03-11-69
184	BNW-184	VRS	3295	,8646		03-10-69	1000	2ATH-KW		1,000	1,5+18	03-11-69	0645	03-11-69
184	BNW-184	VRS	3296	,8542		03-11-69	1015	2ATH-KW		1,000	1,4+18	03-12-69	0645	03-12-69
184	BNW-184	VRS	3297	,8646		03-12-69	1000	2ATH-KW		1,000	7,3+18	03-13-69	0645	03-13-69
184	BNW-184	VRS	3298	,8646		03-12-69	1000	2ATH-KW		1,000	7,3+18	03-13-69	0645	03-13-69
184	BNW-184	VRS	3274	,9062		02-16-69	0900	2DTH-KE		1,000	7,7+18	02-17-69	0645	02-17-69
184	BNW-184	VRS	3275	,9062		02-16-69	0900	2DTH-KE		1,000	7,7+18	02-17-69	0645	02-17-69
184	BNW-184	VRS	3283	,9132		02-26-69	0850	2DTH-KE		1,000	7,7+18	02-27-69	0645	02-27-69
184	BNW-184	VRS	3284	,9132		02-26-69	0850	2DTH-KE		1,000	7,7+18	02-27-69	0645	02-27-69
184	BNW-184	VRS	3285	,8750		03-02-69	0945	2DTH-KE		1,000	7,4+18	03-03-69	0645	03-03-69
184	BNW-184	VRS	3286	,8750		03-02-69	0945	2DTH-KE		1,000	7,4+18	03-03-69	0645	03-03-69
184	BNW-184	VRS	3287	,8715		03-03-69	0950	2DTH-KE		1,000	7,4+18	03-04-69	0645	03-04-69
184	BNW-184	VRS	3288	,8715		03-03-69	0950	2DTH-KE		1,000	7,4+18	03-04-69	0645	03-04-69
184	BNW-184	VRS	3289	,8750		03-04-69	0945	2DTH-KE		1,000	1,5+18	03-05-69	0645	03-05-69
184	BNW-184	VRS	3290	,8819		03-05-69	0935	2DTH-KE		1,000	7,5+18	03-06-69	0645	03-06-69
184	BNW-184	VRS	3291	,8819		03-05-69	0935	2DTH-KE		1,000	7,5+18	03-06-69	0645	03-06-69
184	BNW-184	VRS	3299	,9305		03-16-69	0825	2DTH-KE		1,000	7,9+18	03-17-69	0645	03-17-69
184	BNW-184	VRS	3300	,9305		03-16-69	0825	2DTH-KE		1,000	7,9+18	03-17-69	0645	03-17-69

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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	BNW-184	VRS	3301	,8507		03-17-69	1020	2DTH-KE		1,000	7,2+18	03-18-69	0645	03-18-69
184	BNW-184	VRS	3302	,8507		03-17-69	1020	2DTH-KE		1,000	7,2+18	03-18-69	0645	03-18-69
184	BNW-184	VRS	3303	,9271		03-19-69	0830	2DTH-KE		1,000	7,8+18	03-20-69	0645	03-20-69
184	BNW-184	VRS	3304	,9271		03-19-69	0830	2DTH-KE		1,000	7,8+18	03-20-69	0645	03-20-69
184	BNW-184	PLASTC	6479	,0007		03-05-69	0930	2DTH-KE		1,000	5,3+14	03-05-69	0931	03-06-69
184	BNW-184	PLASTC	6482	,0007		03-23-69	1004	2DTH-KE		1,000	5,3+14	03-23-69	1005	03-24-69
184	BNW-184	PLASTC	6483	,0069		03-23-69	1007	2DTH-KE		1,000	1,2+16	03-23-69	1017	03-24-69
236		ZR-NB	IV29	243,6042		04-01-68	0630	3ATH-KW		1,000	2,1+21	03-16-69	1800	03-17-69
236		ZR	4-28	466,9147		08-13-67	0615	3ATH-KE		1,000	4,2+21	03-16-69	1800	03-17-69
243		MOLY	00R3	85,6250		11-08-68	1535	2BTH-KE		1,000	9,4+20	02-17-69	1712	02-20-69
243		TENSIL	00A1	49,0680		12-15-68	0810	3CTH-KE		1,000	5,4+20	02-10-69	1000	02-20-69
271	BNW-271	DEP-U	0119	2,9479		02-24-69	1030	2DTH-KE		1,000	2,5+19	02-27-69	1535	02-28-69
271	BNW-271	DEP-U	0120	2,9271		03-20-69	1030	2DTH-KE		1,000	2,5+19	03-23-69	0845	03-24-69

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