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

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CG-NMP-1, 8-3-94

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STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF JUNE 15, 1969

L. V. Barker

July 2, 1969

MASTER

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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)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
BR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS ARE IN PROGRESS.														
041	BNW-041	ALUM	0001	18,3986		05-28-69	1426	3865-KE		.942	2.5*20			
041	BNW-041	ALUM	0002	18,3986		05-28-69	1426	3865-KE		.976	2.6*20			
041	BNW-041	ALUM	0003	18,3986		05-28-69	1426	3865-KE		.996	2.6*20			
041	BNW-041	ALUM	0004	18,3986		05-28-69	1426	3865-KE		1.000	2.6*20			
041	BNW-041	ALUM	0005	18,3986		05-28-69	1426	3865-KE		.988	2.6*20			
041	BNW-041	ALUM	0006	18,3986		05-28-69	1426	3865-KE		.960	2.5*20			
177		GRAPH	A0A6	493,6321		09-22-67	0608	3ATH-KE	0-2984	1.000	4.4*21			
177		GRAPH	A0D2	493,6321		09-22-67	0608	3ATH-KE	0-2977	1.000	4.4*21			
177		GRAPH	A0D3	493,6321		09-22-67	0608	3ATH-KE	0-2981	1.000	4.4*21			
177	BNW-177	GRAPH	0C-6	103,9220		01-25-69	0856	4BTH-KE	0-4366	1.000	1.1*21			
177	BNW-177	GRAPH	0140	103,9220		01-25-69	0856	4BTH-KE	0-4379	1.000	1.1*21			
177	BNW-177	GRAPH	0143	103,9220		01-25-69	0856	4BTH-KE	0-4376	1.000	1.1*21			
177	BNW-177	GRAPH	0188	103,9220		01-25-69	0856	4BTH-KE	0-4363	1.000	1.1*21			
177	BNW-177	GRAPH	0189	103,9220		01-25-69	0856	4BTH-KE	0-4357	1.000	1.1*21			
177	BNW-177	GRAPH	0190	103,9220		01-25-69	0856	4BTH-KE	0-4373	1.000	1.1*21			
177	BNW-177	GRAPH	0191	103,9220		01-25-69	0856	4BTH-KE	0-4369	1.000	1.1*21			
177	BNW-177	GRAPH	0192	103,9220		01-25-69	0856	4BTH-KE	0-4354	1.000	1.1*21			
177	BNW-177	GRAPH	0193	103,9220		01-25-69	0856	4BTH-KE	0-4360	1.000	1.1*21			
236		SS	1V36	255,0015		06-11-68	1400	3CTH-KW		1.000	2.9*21			
236		ZIRC	4-30	376,1409		01-14-68	2019	3CTH-KW		1.000	4.4*21			
236		ZIRC	4-25	376,1409		01-14-68	2019	3DTH-KW		1.000	3.3*21			
243		CARBON	0177	141,9549		10-24-68	1345	4CTH-KW		1.000	1.6*21			
243		CARBON	0178	145,9869		10-24-68	1345	4CTH-KW		1.000	1.6*21			
243	BNW-243	TENSIL	0181	89,6285		02-13-69	1320	4CTH-KW		1.000	9.9*20			
381	BNW-381	PU	00P2	48,1052		04-21-69	2113	0065-KE		.136	6.6*18			
381	BNW-381	PU	00P4	48,1052		04-21-69	2113	0065-KE		.137	6.7*18			
381	BNW-381	U	00U5	48,1052		04-21-69	2113	0065-KE		.175	8.5*18			
381	BNW-381	U	00U6	48,1052		04-21-69	2113	0065-KE		.179	8.7*18			
384	BNW-384	BORCAR	0001	48,1052		04-21-69	2113	3CTH-KE		1.000	5.3*20			
384	BNW-384	BORCAR	0002	48,1052		04-21-69	2113	3CTH-KE		1.000	5.3*20			
384	BNW-384	BORCAR	0003	48,1052		04-21-69	2113	3CTH-KE		1.000	5.3*20			

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IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE	
TASK NO	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME		
THE FOLLOWING IRRADIATIONS ARE AWAITING DISPOSITION.															
243	BNW-271	VRS	0172	115.3774			07-30-68	1455	4CTH-KW		1.000	1.3*21	02-24-69	1350	
271		VRS	0122	32.2000			04-07-69	1015	2ATH-KW				1.000	04-14-68	

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ITEM NO.	IDENTIFICATION			OPERATING TIME (DAYS)	C M K ASSEMBLED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
	REQUISIT NUMBER	MATERIAL	PIECE NO.			FACILITY	TEST HOLE POSITION	POSITION FACTOR	DATE	TIME				
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MONTH														
184	BNN-184	VRS	3369	.8715		06-10-69	0950	2ATH-KW		1.000	7,4*18	06-11-69	0645	06-11-69
184	BNN-184	VRS	3370	.8750		06-11-69	0945	2ATH-KW		1.000	7,4*18	06-12-69	0645	06-12-69
184	BNN-184	VRS	3371	.8750		06-11-69	0945	2ATH-KW		1.000	7,4*18	06-12-69	0645	06-12-69
184	BNN-184	PLASTC	6498	.0007		05-13-69	0832	2ATH-KW		1.000	5,3*14	05-13-69	0833	05-14-69
184	BNN-184	PLASTC	6499	.0007		05-14-69	1305	2ATH-KW		1.000	5,3*14	05-14-69	1306	05-15-69
184	BNN-184	PLASTC	6500	.0007		05-14-69	1307	2ATH-KW		1.000	5,3*14	05-14-69	1308	05-15-69
184	BNN-184	PLASTC	6501	.0007		05-14-69	1309	2ATH-KW		1.000	5,3*14	05-14-69	1310	05-15-69
184	BNN-184	PLASTC	6502	.0007		05-14-69	1311	2ATH-KW		1.000	5,3*14	05-14-69	1312	05-15-69
184	BNN-184	PLASTC	6503	.0007		05-14-69	1313	2ATH-KW		1.000	5,3*14	05-14-69	1314	05-15-69
184	BNN-184	PLASTC	6504	.0007		05-14-69	1315	2ATH-KW		1.000	5,3*14	05-14-69	1316	05-15-69
184	BNN-184	PLASTC	6505	.0007		05-14-69	1317	2ATH-KW		1.000	5,3*14	05-14-69	1318	05-15-69
184	BNN-184	PLASTC	6506	.0007		05-14-69	1319	2ATH-KW		1.000	5,3*14	05-14-69	1320	05-15-69
184	BNN-184	PLASTC	6507	.0007		05-14-69	1321	2ATH-KW		1.000	5,3*14	05-14-69	1322	05-15-69
184	BNN-184	PLASTC	6508	.0007		05-14-69	1323	2ATH-KW		1.000	5,3*14	05-14-69	1324	05-15-69
184	BNN-184	PLASTC	6509	.0007		05-14-69	1325	2ATH-KW		1.000	5,3*14	05-14-69	1326	05-15-69
184	BNN-184	PLASTC	6510	.0007		05-14-69	1330	2ATH-KW		1.000	5,3*14	05-14-69	1331	05-15-69
184	BNN-184	PLASTC	6511	.0007		05-14-69	1332	2ATH-KW		1.000	5,3*14	05-14-69	1333	05-15-69
184	BNN-184	PLASTC	6512	.0007		05-14-69	1334	2ATH-KW		1.000	5,3*14	05-14-69	1335	05-15-69
184	BNN-184	PLASTC	6513	.0007		05-14-69	1336	2ATH-KW		1.000	5,3*14	05-14-69	1337	05-15-69
184	BNN-184	PLASTC	6514	.0007		05-14-69	1338	2ATH-KW		1.000	5,3*14	05-14-69	1339	05-15-69
184	BNN-184	PLASTC	6515	.0007		05-14-69	1340	2ATH-KW		1.000	5,3*14	05-14-69	1341	05-15-69
184	BNN-184	PLASTC	6516	.0007		05-14-69	1342	2ATH-KW		1.000	5,3*14	05-14-69	1343	05-15-69
184	BNN-184	PLASTC	6517	.0007		05-14-69	1344	2ATH-KW		1.000	5,3*14	05-14-69	1345	05-15-69
184	BNN-184	PLASTC	6518	.0007		05-14-69	1346	2ATH-KW		1.000	5,3*14	05-14-69	1347	05-15-69
184	BNN-184	PLASTC	6519	.0007		05-14-69	1348	2ATH-KW		1.000	5,3*14	05-14-69	1349	05-15-69
184	BNN-184	PLASTC	6520	.0007		05-14-69	1350	2ATH-KW		1.000	5,3*14	05-14-69	1351	05-15-69
184	BNN-184	PLASTC	6521	.0007		05-14-69	1352	2ATH-KW		1.000	5,3*14	05-14-69	1352	05-15-69
184	BNN-184	PLASTC	6522	.0007		05-14-69	1354	2ATH-KW		1.000	5,3*14	05-14-69	1354	05-15-69
184	BNN-184	PLASTC	6523	.0007		05-14-69	1356	2ATH-KW		1.000	5,3*14	05-14-69	1356	05-15-69
184	BNN-184	PLASTC	6524	.0007		05-14-69	1358	2ATH-KW		1.000	5,3*14	05-14-69	1358	05-15-69
184	BNN-184	PLASTC	6525	.0007		05-14-69	1402	2ATH-KW		1.000	5,3*14	05-14-69	1402	05-15-69
184	BNN-184	PLASTC	6526	.0007		05-14-69	1404	2ATH-KW		1.000	5,3*14	05-14-69	1404	05-15-69
184	BNN-184	PLASTC	6527	.0007		05-14-69	1406	2ATH-KW		1.000	5,3*14	05-14-69	1406	05-15-69
184	BNN-184	PLASTC	6528	.0007		05-14-69	1408	2ATH-KW		1.000	5,3*14	05-14-69	1408	05-15-69
184	BNN-184	PLASTC	6529	.0007		05-14-69	1410	2ATH-KW		1.000	5,3*14	05-14-69	1410	05-15-69
184	BNN-184	PLASTC	6530	.0007		05-14-69	1412	2ATH-KW		1.000	5,3*14	05-14-69	1412	05-15-69
184	BNN-184	PLASTC	6531	.0007		05-15-69	0857	2ATH-KW		1.000	5,3*14	05-15-69	0858	05-16-69
184	BNN-184	PLASTC	6537	.0014		06-07-69	1033	2ATH-KW		1.000	1,1*15	06-07-69	1035	06-09-69

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IDENTIFICATION

CHARGE

LOCATION

DISCHARGE

EMPTYING DATE

TASK NO.	REQUEST NUMBER	MATERIAL	PIECE NO.	OPERATING TIME (DAYS)	C M K ABSORBED	DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR	EXPOSURE TO DATE NVT	DATE	TIME	EMPTYING DATE
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MONTH														
184	BNN-184	VRS	3350	.8646		05-18-69	1000	2DTH-KE		1.000	7.3-18	05-19-69	0645	05-19-69
184	BNN-184	VRS	3351	.8646		05-18-69	1000	2DTH-KE		1.000	7.3-18	05-19-69	0645	05-19-69
184	BNN-184	VRS	3352	.9271		05-20-69	0830	2DTH-KE		1.000	7.8-18	05-21-69	0645	05-21-69
184	BNN-184	VRS	3353	.9271		05-20-69	0830	2DTH-KE		1.000	7.8-18	05-21-69	0645	05-21-69
184	BNN-184	VRS	3354	.9271		05-22-69	0830	2DTH-KE		1.000	7.8-18	05-23-69	0645	05-23-69
184	BNN-184	VRS	3355	.9271		05-22-69	0830	2DTH-KE		1.000	7.8-18	05-23-69	0645	05-23-69
184	BNN-184	VRS	3356	.8958		06-01-69	0915	2DTH-KE		1.000	7.6-18	06-02-69	0645	06-02-69
184	BNN-184	VRS	3357	.8958		06-01-69	0915	2DTH-KE		1.000	7.6-18	06-02-69	0645	06-02-69
184	BNN-184	VRS	3358	.8437		06-02-69	1030	2DTH-KE		1.000	7.1-18	06-03-69	0645	06-03-69
184	BNN-184	VRS	3359	.8437		06-02-69	1030	2DTH-KE		1.000	7.1-18	06-03-69	0645	06-03-69
184	BNN-184	VRS	3360	.8403		06-03-69	1035	2DTH-KE		1.000	7.1-18	06-04-69	0645	06-04-69
184	BNN-184	VRS	3361	.8403		06-03-69	1035	2DTH-KE		1.000	7.1-18	06-04-69	0645	06-04-69
184	BNN-184	VRS	3362	.9201		06-05-69	0840	2DTH-KE		1.000	7.8-18	06-05-69	0645	06-05-69
184	BNN-184	VRS	3363	.9201		06-05-69	0840	2DTH-KE		1.000	7.8-18	06-05-69	0645	06-05-69
184	BNN-184	VRS	3372	.8924		06-15-69	0920	2DTH-KE		1.000	7.5-18	06-16-69	0645	06-16-69
184	BNN-184	VRS	3373	.8924		06-15-69	0920	2DTH-KE		1.000	7.5-18	06-16-69	0645	06-16-69
184	BNN-184	VRS	3374	.8646		06-16-69	1000	2DTH-KE		1.000	7.3-18	06-17-69	0645	06-17-69
184	BNN-184	VRS	3375	.8646		06-16-69	1000	2DTH-KE		1.000	7.3-18	06-17-69	0645	06-17-69
184	BNN-184	PLASTC	6532	.0007		05-24-69	0929	2DTH-KE		1.000	1.2-15	05-24-69	0930	05-26-69
184	BNN-184	PLASTC	6533	.0007		05-24-69	0931	2DTH-KE		1.000	1.2-15	05-24-69	0932	05-26-69
184	BNN-184	PLASTC	6534	.0007		05-24-69	0933	2DTH-KE		1.000	1.2-15	05-24-69	0934	05-26-69
184	BNN-184	PLASTC	6535	.0007		06-01-69	0910	2DTH-KE		1.000	1.2-15	06-01-69	0911	06-02-69
184	BNN-184	PLASTC	6536	.0007		06-01-69	0913	2DTH-KE		1.000	1.2-15	06-01-69	0914	06-02-69
271	BNN-271	DEP-U	0128	2.9410		05-15-69	0955	2DTH-KE		1.000	2.5-19	05-18-69	0830	05-19-69
271	BNN-271	NEP	0129	7.9896		06-06-69	1115	2DTH-KE		1.000	6.8-19	06-14-69	1045	06-16-69
391	BNN-391	PU	0001	.4479		05-13-69	1010	2BTH-KW		1.000	4.9-18	05-13-69	2055	05-20-69
391	BNN-391	PU-U	0002	.4757		06-12-69	1035	2BTH-KW		1.000	5.2-18	06-12-69	2200	06-13-69
395	BNN-395	FE-MYL	0001	.0007		05-14-69	1020	2ATH-KW		1.000	4.1-14	05-14-69	1021	05-14-69

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