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TITLE

STATUS OF IRRADIATIONS PERFORMED BY
FUEL AND TARGET IRRADIATION TECHNOLOGY
FOR BNW AS OF SEPTEMBER 30, 1969

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STATUS OF IRRADIATIONS PERFORMED BY
FUEL AND TARGET IRRADIATION TECHNOLOGY
FOR BNW AS OF SEPTEMBER 30, 1969

L. V. Barker

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.

J. S. McManis
Supervisor
Irradiation Services

LV Barker/k

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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	BNW-177	GRAPH	GP-2	54,4675		07-24-69	0940	3DTH-KW		1,000	4,6+20			
177	BNW-177	GRAPH	OC-6	174,8927		01-25-69	0856	4BTH-KE	Q-4366	1,000	1,9+21			
177	BNW-177	GRAPH	0140	174,8927		01-25-69	0856	4BTH-KE	Q-4379	1,000	1,9+21			
177	BNW-177	GRAPH	0143	174,8927		01-25-69	0856	4BTH-KE	Q-4376	1,000	1,9+21			
177	BNW-177	GRAPH	0188	174,8927		01-25-69	0856	4BTH-KE	Q-4363	1,000	1,9+21			
177	BNW-177	GRAPH	0189	174,8927		01-25-69	0856	4BTH-KE	Q-4357	1,000	1,9+21			
177	BNW-177	GRAPH	0190	174,8927		01-25-69	0856	4BTH-KE	Q-4373	1,000	1,9+21			
177	BNW-177	GRAPH	0191	174,8927		01-25-69	0856	4BTH-KE	Q-4369	1,000	1,9+21			
177	BNW-177	GRAPH	0192	174,8927		01-25-69	0856	4BTH-KE	Q-4354	1,000	1,9+21			
177	BNW-177	GRAPH	0193	174,8927		01-25-69	0856	4BTH-KE	Q-4360	1,000	1,9+21			
236		SS	1V36	339,4919		06-11-68	1400	3CTH-KW		1,000	3,8+21			
236		ZIRC	4-30	460,6313		01-14-68	2019	3CTH-KW		1,000	5,4+21			
236	BNW-236	SS	4-40	17,3827		09-07-69	1740	2CTH-KW		1,000	1,9+20			
236	BNW-236-A	SS	4-38	76,3979		05-29-69	2312	3BTH-KW		1,000	8,4+20			
243		CARBON	0178	185,5627		10-24-68	1345	4CTH-KW		1,000	2,0+21			
271	BNW-271	STR	0132	56,1742		07-29-69	1348	2DTH-KE	6-2273	1,000	4,8+20			
384	BNW-384	BORCAR	0004	96,5535		05-29-69	2312	3BTH-KW		1,000	1,1+21			
384	BNW-384	BORCAR	0005	96,5535		05-29-69	2312	3BTH-KW		1,000	1,1+21			
384	BNW-384	BORCAR	0006	96,5535		05-29-69	2312	3BTH-KW		1,000	1,1+21			
384	BNW-384	BORCAR	0002	119,0759		04-21-69	2113	3CTH-KE		1,000	1,3+21			
384	BNW-384	BORCAR	0003	119,0759		04-21-69	2113	3CTH-KE		1,000	1,3+21			

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TISR NO.	REQUEST NUMBER	IDENTIFICATION		OPERATING TIME (DAYS)	C M K	CHARGE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR	EXPOSURE TO DATE	DATE	SHIPPING DATE
		PIECE NO.	MATERIAL									TIME	
172	BMM-172	ORE	2225	0007	09-02-69	1421	2DTH-KE	2DTH-KE		1,000	4,1+14	09-02-69	1422
172	BMM-172	ORE	2226	0007	09-02-69	1438	2DTH-KE	2DTH-KE		1,000	4,1+14	09-02-69	1439
172	BMM-172	ORE	2227	0007	09-02-69	1503	2DTH-KE	2DTH-KE		1,000	4,1+14	09-02-69	1504
172	BMM-172	ORE	2228	0035	09-02-69	1529	2DTH-KE	2DTH-KE		1,000	2,4+15	09-02-69	1534
172	BMM-172	VAR	2239	0208	09-24-69	1100	2DTH-KE	2DTH-KE		1,000	1,8+17	09-24-69	1130
172	BMM-172	SEASLT	2229	1,0000	09-11-69	1350	4BTH-KM	4BTH-KM		1,000	8,1+17	09-12-69	1350
172	BMM-172	SEASLT	2230	1,0000	09-11-69	1350	4BTH-KM	4BTH-KM		1,000	1,3+18	09-12-69	1350
172	BMM-172	SEASLT	2231	1,0000	09-11-69	1350	4BTH-KM	4BTH-KM		1,000	1,3+18	09-12-69	1350
172	BMM-172	CR-FE	2232	0208	09-13-69	0820	4BTH-KM	4BTH-KM		1,000	4,2+16	09-13-69	0850
172	BMM-172	WATER	2233	0208	09-18-69	0910	4BTH-KM	4BTH-KM		1,000	1,7+16	09-18-69	0940
172	BMM-172	WATER	2234	0208	09-18-69	0940	4BTH-KM	4BTH-KM		1,000	1,7+16	09-18-69	0940
172	BMM-172	FILT	2236	1,0000	09-18-69	1235	4BTH-KM	4BTH-KM		1,000	8,1+17	09-19-69	1235
172	BMM-172	FILT	2237	0896	09-20-69	1045	4BTH-KM	4BTH-KM		1,000	7,0+17	09-21-69	1040
172	BMM-172	FILT	2238	0896	09-20-69	1045	4BTH-KM	4BTH-KM		1,000	8,0+17	09-21-69	1040
184	BMM-184	VAR	3434	9271	09-01-69	0830	2ATH-KM	2ATH-KM		1,000	7,8+18	09-02-69	0645
184	BMM-184	VAR	3435	9271	09-01-69	0830	2ATH-KM	2ATH-KM		1,000	7,8+18	09-02-69	0645
184	BMM-184	VAR	3436	8646	09-02-69	1000	2ATH-KM	2ATH-KM		1,000	7,3+18	09-03-69	0645
184	BMM-184	VAR	3437	8646	09-02-69	1000	2ATH-KM	2ATH-KM		1,000	7,3+18	09-03-69	0645
184	BMM-184	VAR	3440	7917	09-09-69	1145	2ATH-KM	2ATH-KM		1,000	6,7+18	09-10-69	0645
184	BMM-184	VAR	3441	7917	09-09-69	1145	2ATH-KM	2ATH-KM		1,000	6,7+18	09-10-69	0645
184	BMM-184	VAR	3451	8646	09-17-69	1000	2ATH-KM	2ATH-KM		1,000	7,3+18	09-18-69	0645
184	BMM-184	VAR	3452	8646	09-17-69	1000	2ATH-KM	2ATH-KM		1,000	7,3+18	09-18-69	0645
184	BMM-184	VAR	3453	8715	09-21-69	0950	2ATH-KM	2ATH-KM		1,000	7,4+18	09-22-69	0645
184	BMM-184	VAR	3454	8715	09-21-69	0950	2ATH-KM	2ATH-KM		1,000	7,4+18	09-22-69	0645
184	BMM-184	VAR	3455	8993	09-23-69	0910	2ATH-KM	2ATH-KM		1,000	1,5+18	09-24-69	0645
184	BMM-184	VAR	3456	8993	09-23-69	0910	2ATH-KM	2ATH-KM		1,000	1,5+18	09-24-69	0645
184	BMM-184	VAR	3457	8507	09-24-69	1020	2ATH-KM	2ATH-KM		1,000	7,2+18	09-25-69	0645
184	BMM-184	VAR	3458	8507	09-24-69	1020	2ATH-KM	2ATH-KM		1,000	7,2+18	09-25-69	0645
184	BMM-184	VAR	3438	8056	09-04-69	1130	2DTH-KE	2DTH-KE		1,000	6,8+18	09-05-69	0650
184	BMM-184	VAR	3439	8056	09-04-69	1130	2DTH-KE	2DTH-KE		1,000	6,8+18	09-05-69	0650
184	BMM-184	VAR	3442	8736	09-10-69	0947	2DTH-KE	2DTH-KE		1,000	7,4+18	09-11-69	0645
184	BMM-184	VAR	3443	8750	09-11-69	0945	2DTH-KE	2DTH-KE		1,000	7,4+18	09-12-69	0645
184	BMM-184	VAR	3444	8750	09-11-69	0945	2DTH-KE	2DTH-KE		1,000	7,4+18	09-12-69	0645
184	BMM-184	VAR	3445	9097	09-14-69	0855	2DTH-KE	2DTH-KE		1,000	7,7+18	09-15-69	0645
184	BMM-184	VAR	3446	9097	09-14-69	0855	2DTH-KE	2DTH-KE		1,000	7,7+18	09-15-69	0645
184	BMM-184	VAR	3447	8611	09-15-69	1005	2DTH-KE	2DTH-KE		1,000	7,3+18	09-16-69	0645
184	BMM-184	VAR	3448	8611	09-15-69	1005	2DTH-KE	2DTH-KE		1,000	7,3+18	09-16-69	0645

THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MONTH

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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	VAR	3449	,8681		09-16-69	0955	2DTH-KE		1,000	7,3+18	09-17-69	0645	09-17-69
184	BNW-184	VAR	3450	,8681		09-16-69	0955	2DTH-KE		1,000	7,3+18	09-17-69	0645	09-17-69
184	BNW-184	VAR	3459	,9097		09-28-69	0855	2DTH-KE		1,000	7,7+18	09-29-69	0645	09-29-69
184	BNW-184	VAR	3460	,9097		09-28-69	0855	2DTH-KE		1,000	7,7+18	09-29-69	0645	09-29-69
184	BNW-184	VAR	3461	,8542		09-29-69	1015	2DTH-KE		1,000	7,2+18	09-30-69	0645	09-30-69
184	BNW-184	VAR	3462	,8542		09-29-69	1015	2DTH-KE		1,000	7,2+18	09-30-69	0645	09-30-69
184	BNW-184	PLAS	6679	,0014		09-10-69	0935	2DTH-KE		1,000	1,1+15	09-10-69	0937	09-11-69
184	BNW-184	PLAS	6680	,0014		09-10-69	0938	2DTH-KE		1,000	1,1+15	09-10-69	0940	09-11-69
184	BNW-184	PLAS	6681	,0014		09-10-69	0941	2DTH-KE		1,000	1,1+15	09-10-69	0943	09-11-69
184	BNW-184	PLAS	6682	,0014		09-10-69	0944	2DTH-KE		1,000	1,1+15	09-10-69	0946	09-11-69
184	BNW-184	PLAS	6683	,0208		09-08-69	0945	4BTH-KW		1,000	1,5+16	09-08-69	1015	09-09-69
184	BNW-184	PLAS	6684	,0208		09-08-69	0945	4BTH-KW		1,000	1,7+16	09-08-69	1015	09-09-69
184	BNW-184	PLAS	6685	,0208		09-08-69	0945	4BTH-KW		1,000	1,8+16	09-08-69	1015	09-09-69
184	BNW-184	PLAS	6686	,0208		09-08-69	0945	4BTH-KW		1,000	2,6+16	09-08-69	1015	09-09-69
184	BNW-184	PLAS	6687	,0208		09-08-69	0945	4BTH-KW		1,000	4,2+16	09-08-69	1015	09-09-69
184	BNW-184	PLAS	6688	,0208		09-08-69	0945	4BTH-KW		1,000	6,3+16	09-08-69	1015	09-09-69
184	BNW-184	PLAS	6689	,0014		09-20-69	1040	4BTH-KW		1,000	1,2+15	09-20-69	1042	09-22-69
184	BNW-184	PLAS	6690	,0014		09-30-69	0847	4BTH-KW		1,000	1,2+15	09-30-69	0849	09-30-69
236		ZIRC	4-25	440,4757		01-14-68	2019	3DTH-KW		1,000	3,8+21	09-02-69	0000	09-02-69
271	BNW-271	DEF-L	0137	2,9305		09-18-69	1010	2ATH-KW		1,000	2,5+19	09-21-69	0840	09-22-69
381	BNW-381	PU	00P3	45,6881		07-20-69	1348	0065-KE		,137	6,4+18	09-17-69	1520	09-25-69
381	BNW-381	PU	00P5	45,6881		07-20-69	1348	0065-KE		,136	6,3+18	09-17-69	1520	09-25-69
381	BNW-381	U	00U3	45,6881		07-20-69	1348	0065-KE		,179	8,3+18	09-17-69	1520	09-25-69
381	BNW-381	U	00U4	45,6881		07-20-69	1348	0065-KE		,175	8,1+18	09-17-69	1520	09-25-69
381	BNW-381	U	2331	45,6881		07-20-69	1348	0065-KE		,430	2,0+19	09-17-69	1520	09-25-69
394	BNW-394	UO	0001	6,0556		09-11-69	1400	2BTH-KE		1,000	6,7+19	09-17-69	1520	09-22-69

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