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Released 1994

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

Pacific Northwest Laboratory
Operated for the U.S. Department of Energy
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STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF MAY 11, 1969

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AUTHOR

L. V. Barker

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1. WB Olson
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3. DUN Record

Battelle-Northwest

4. LD Blackburn
5. FP Brauer/RJ Brouns
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STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF MAY 11, 1969

L. V. Barker

May 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.

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
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	A0A6	462,2464		09-22-67	0608	3ATH-KE	0-2984	1,000	4,1+21			
177		GRAPH	A0D2	462,2464		09-22-67	0608	3ATH-KE	0-2977	1,000	4,1+21			
177		GRAPH	A0D3	462,2464		09-22-67	0608	3ATH-KE	0-2981	1,000	4,1+21			
177	BNW-177	GRAPH	0C-6	72,5363		01-25-69	0856	4BTH-KE	0-4366	1,000	8,0+20			
177	BNW-177	GRAPH	0140	72,5363		01-25-69	0856	4BTH-KE	0-4379	1,000	8,0+20			
177	BNW-177	GRAPH	0143	72,5363		01-25-69	0856	4BTH-KE	0-4376	1,000	8,0+20			
177	BNW-177	GRAPH	0188	72,5363		01-25-69	0856	4BTH-KE	0-4363	1,000	8,0+20			
177	BNW-177	GRAPH	0189	72,5363		01-25-69	0856	4BTH-KE	0-4357	1,000	8,0+20			
177	BNW-177	GRAPH	0190	72,5363		01-25-69	0856	4BTH-KE	0-4373	1,000	8,0+20			
177	BNW-177	GRAPH	0191	72,5363		01-25-69	0856	4BTH-KE	0-4369	1,000	8,0+20			
177	BNW-177	GRAPH	0192	72,5363		01-25-69	0856	4BTH-KE	0-4354	1,000	8,0+20			
177	BNW-177	GRAPH	0193	72,5363		01-25-69	0856	4BTH-KE	0-4360	1,000	8,0+20			
236		SS	1V36	237,9259		06-11-68	1400	3CTH-KW		1,000	2,7+21			
236		ZIRC	4-30	359,0653		01-14-68	2019	3CTH-KW		1,000	4,2+21			
236		ZIRC	4-25	359,0653		01-14-68	2019	3DTH-KW		1,000	3,2+21			
243		CARBON	0177	124,8793		10-24-68	1345	4CTH-KW		1,000	1,4+21			
243		CARBON	0178	128,9113		10-24-68	1345	4CTH-KW		1,000	1,4+21			
243	BNW-243	TENSIL	0181	72,5529		02-13-69	1320	4CTH-KW		1,000	8,0+20			
271	BNW-271	VRS	0122	32,2000		04-07-69	1015	2ATH-KW		1,000	2,7+20			
381	BNW-381	PU	00P2	16,7195		04-21-69	2113	0065-KE		,136	2,3+18			
381	BNW-381	PU	00P4	16,7195		04-21-69	2113	0065-KE		,137	2,3+18			
381	BNW-381	U	00U5	16,7195		04-21-69	2113	0065-KE		,175	3,0+18			
381	BNW-381	U	00U6	16,7195		04-21-69	2113	0065-KE		,179	3,0+18			
384	BNW-384	BORCAR	0001	16,7195		04-21-69	2113	3CTH-KE		1,000	1,8+20			
384	BNW-384	BORCAR	0002	16,7195		04-21-69	2113	3CTH-KE		1,000	1,8+20			
384	BNW-384	BORCAR	0003	16,7195		04-21-69	2113	3CTH-KE		1,000	1,8+20			

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IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE N V T	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.														
177		GRAPH	A0J3	489.4591		02-12-68	2150	BTH -C	0-2068	1.000	3,3+21	04-25-69	1610	
177		GRAPH	A0J4	489.4591		02-12-68	2150	BTH -C	0-2065	1.000	3,3+21	04-25-69	1610	
177		GRAPH	B0J6	156.4189		09-13-68	1100	BTH -C	0-2074	1.000	1,1+21	04-25-69	1610	
177		GRAPH	B0J7	156.4189		09-13-68	1100	BTH -C	0-2077	1.000	1,1+21	04-25-69	1610	
177		GRAPH	B0J8	156.4189		09-13-68	1100	BTH -C	0-2071	1.000	1,1+21	04-25-69	1610	
177		GRAPH	B0K6	156.4189		09-13-68	1100	BTH -C	0-2080	1.000	1,1+21	04-25-69	1610	
177		GRAPH	00J2	326.5232		02-12-68	2150	BTH -C	0-2059	1.000	2,2+21	04-25-69	1610	
177		GRAPH	00K9	326.5232		02-12-68	2150	BTH -C	0-2062	1.000	2,2+21	04-25-69	1610	
243		VRS	0172	115.3774		07-30-68	1455	4CTH-KW		1.000	1.3+21	02-24-69	1350	

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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	VRS	1835	.0069		04-18-69	0945	ATH -C		1.000	1,1+16	04-18-69	0955	04-22-69
172	BNW-172	VRS.	1836	1.0000		04-19-69	1110	ATH -C		1.000	1,5+18	04-20-69	1110	04-21-69
172	BNW-172	VRS	1837	1.0000		04-19-69	1110	ATH -C		1.000	2,5+18	04-20-69	1110	04-21-69
172	BNW-172	WATER	1838	.0208		04-22-69	0930	ATH -C		1.000	5,3+16	04-22-69	1000	04-23-69
172	BNW-172	WATER	1839	.0208		04-22-69	1003	ATH -C		1.000	5,3+16	04-22-69	1033	04-23-69
172	BNW-172	WATER	1840	.0208		04-22-69	1035	ATH -C		1.000	5,3+16	04-22-69	1105	04-23-69
172	BNW-172	WATER	1842	.0208		04-25-69	1307	ATH -C		1.000	5,3+16	04-25-69	1337	04-28-69
172	BNW-172	WATER	1843	.0208		04-25-69	1350	ATH -C		1.000	5,3+16	04-25-69	1420	04-28-69
172	BNW-172	WATER	1844	.0208		04-25-69	1428	ATH -C		1.000	5,3+16	04-25-69	1458	04-28-69
172	BNW-172	VRS	1828	.0069		04-16-69	0910	2ATH-KW		1.000	5,8+16	04-16-69	0920	04-21-69
172	BNW-172	VRS	1829	.0069		04-16-69	0910	2ATH-KW		1.000	5,8+16	04-16-69	0920	04-21-69
172	BNW-172	VRS	1830	.0069		04-16-69	0910	2ATH-KW		1.000	5,8+16	04-16-69	0920	04-21-69
172	BNW-172	VRS	1831	.0069		04-16-69	0910	2ATH-KW		1.000	5,8+16	04-16-69	0920	04-21-69
172	BNW-172	VRS	1832	.0069		04-16-69	0910	2ATH-KW		1.000	5,8+16	04-16-69	0920	04-21-69
172	BNW-172	VRS	1833	.0069		04-16-69	0910	2ATH-KW		1.000	5,8+16	04-16-69	0920	04-21-69
172	BNW-172	VRS	1834	.0069		04-16-69	0910	2ATH-KW		1.000	5,8+16	04-16-69	0920	04-21-69
172	BNW-172	OIL	1841	.0035		04-25-69	0840	2ATH-KW		1.000	2,7+15	04-28-69	0845	04-29-69
172	BNW-172	BIO	1845	.0208		05-03-69	1235	2ATH-KW		1.000	1,8+17	05-03-69	1305	05-05-69
172	BNW-172	BIO	1846	.0208		05-03-69	1235	2ATH-KW		1.000	1,8+17	05-03-69	1305	05-05-69
172	BNW-172	BIO	1847	.0208		05-03-69	1235	2ATH-KW		1.000	1,8+17	05-03-69	1305	05-05-69
172	BNW-172	BIO	1848	.0208		05-03-69	1235	2ATH-KW		1.000	1,8+17	05-03-69	1305	05-05-69
172	BNW-172	BIO	1849	.0208		05-03-69	1235	2ATH-KW		1.000	1,8+17	05-03-69	1305	05-05-69
172	BNW-172	VAR	1850	.0208		05-10-69	1021	2ATH-KW		1.000	1,8+17	05-10-69	1058	05-12-69
172	BNW-172	VAR	1851	.0208		05-10-69	1021	2ATH-KW		1.000	1,8+17	05-10-69	1058	05-12-69
172	BNW-172	VAR	1852	.0208		05-10-69	1021	2ATH-KW		1.000	1,8+17	05-10-69	1058	05-12-69
172	BNW-172	VAR	1853	.0208		05-10-69	1021	2ATH-KW		1.000	1,8+17	05-10-69	1058	05-12-69
172	BNW-172	VAR	1854	.0208		05-10-69	1021	2ATH-KW		1.000	1,8+17	05-10-69	1058	05-12-69
172	BNW-172	VAR	1856	.8472		05-09-69	1240	2ATH-KW		1.000	7,2+18	05-10-69	0900	05-12-69
172	BNW-172	VAR	1855	.0208		05-07-69	1330	2DTH-KE		1.000	1,8+17	05-07-69	1400	05-09-69
172	BNW-172	VAR	1857	.0208		05-13-69	1045	2DTH-KE		1.000	1,8+17	05-13-69	1115	05-15-69
172	BNW-172	VAR	1858	.0208		05-13-69	1045	2DTH-KE		1.000	1,8+17	05-13-69	1115	05-15-69
172	BNW-172	VAR	1859	.0208		05-13-69	1045	2DTH-KE		1.000	1,8+17	05-13-69	1115	05-15-69
172	BNW-172	VAR	1860	.0208		05-13-69	1045	2DTH-KE		1.000	1,8+17	05-13-69	1115	05-15-69
172	BNW-172	VAR	1861	.0208		05-13-69	1045	2DTH-KE		1.000	1,8+17	05-13-69	1115	05-15-69
172	BNW-172	VAR	1862	.0208		05-13-69	1045	2DTH-KE		1.000	1,8+17	05-13-69	1115	05-15-69
172	BNW-172	VAR	1863	.0208		05-13-69	0900	2DTH-KE		1.000	1,8+17	05-13-69	0930	05-15-69
172	BNW-172	VAR	1864	.0208		05-13-69	0900	2DTH-KE		1.000	1,8+17	05-13-69	0930	05-15-69
172	BNW-172	VAR	1865	.0208		05-13-69	0900	2DTH-KE		1.000	1,8+17	05-13-69	0930	05-15-69

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IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE N V I	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	VAR	1866	.0208		05-13-69	0900	2DTH-KE		1,000	1,8+17	05-13-69	0930	05-15-69
172	BNW-172	VAR	1867	.0208		05-13-69	0900	2DTH-KE		1,000	1,8+17	05-13-69	0930	05-15-69
172	BNW-172	VAR	1868	.0208		05-13-69	0900	2DTH-KE		1,000	1,8+17	05-13-69	0930	05-15-69
177	BNW-177	GRAPH	00S2	5.0000		04-16-69	1100	2BTH-KW		1,000	5,5+19	04-21-69	1100	04-25-69
177	BNW-177	GRAPH	00S3	10.0000		04-22-69	1300	2BTH-KW		1,000	1,1+20	05-02-69	1300	05-07-69
184	BNW-184	VRS	3330	.0417		04-22-69	0648	ATH -C		1,000	2,5+16	04-22-69	0748	04-22-69
184	BNW-184	VRS	3323	.8229		04-13-69	1100	2ATH-KW		1,000	7,0+18	04-14-69	0645	04-14-69
184	BNW-184	VRS	3324	.8229		04-13-69	1100	2ATH-KW		1,000	7,0+18	04-14-69	0645	04-14-69
184	BNW-184	VRS	3325	.8507		04-14-69	1020	2ATH-KW		1,000	7,2+18	04-15-69	0645	04-15-69
184	BNW-184	VRS	3326	.8785		04-16-69	0940	2ATH-KW		1,000	1,5+18	04-17-69	0645	04-17-69
184	BNW-184	VRS	3327	.8785		04-16-69	0940	2ATH-KW		1,000	1,5+18	04-17-69	0645	04-17-69
184	BNW-184	VRS	3328	.9062		04-20-69	0900	2ATH-KW		1,000	7,7+18	04-21-69	0645	04-21-69
184	BNW-184	VRS	3329	.9062		04-20-69	0900	2ATH-KW		1,000	7,7+18	04-21-69	0645	04-21-69
184	BNW-184	VRS	3331	.8437		04-22-69	1030	2ATH-KW		1,000	7,1+18	04-23-69	0645	04-23-69
184	BNW-184	VRS	3332	.8437		04-22-69	1030	2ATH-KW		1,000	7,1+18	04-23-69	0645	04-23-69
184	BNW-184	VRS	3333	.8646		04-23-69	1000	2ATH-KW		1,000	7,3+18	04-24-69	0645	04-24-69
184	BNW-184	VRS	3334	.8646		04-23-69	1000	2ATH-KW		1,000	7,3+18	04-24-69	0645	04-24-69
184	BNW-184	VRS	3335	.8437		04-27-69	1030	2ATH-KW		1,000	7,1+18	04-28-69	0645	04-28-69
184	BNW-184	VRS	3336	.8437		04-27-69	1030	2ATH-KW		1,000	7,1+18	04-28-69	0645	04-28-69
184	BNW-184	VRS	3337	.0417		04-29-69	0635	2ATH-KW		1,000	2,5+16	04-29-69	0735	04-29-69
184	BNW-184	VRS	3338	.9167		04-30-69	0845	2ATH-KW		1,000	7,8+18	05-01-69	0645	05-01-69
184	BNW-184	VRS	3339	.9167		04-30-69	0845	2ATH-KW		1,000	7,8+18	05-01-69	0645	05-01-69
184	BNW-184	VRS	3340	.8229		05-05-69	1100	2ATH-KW		1,000	7,0+18	05-06-69	0645	05-06-69
184	BNW-184	VRS	3341	.8229		05-05-69	1100	2ATH-KW		1,000	7,0+18	05-06-69	0645	05-06-69
184	BNW-184	VRS	3342	.8264		05-08-69	1055	2ATH-KW		1,000	7,0+18	05-09-69	0645	05-09-69
184	BNW-184	VRS	3343	.8264		05-08-69	1055	2ATH-KW		1,000	7,0+18	05-09-69	0645	05-09-69
184	BNW-184	VRS	3344	.8924		05-11-69	0920	2ATH-KW		1,000	7,5+18	05-12-69	0645	05-12-69
184	BNW-184	VRS	3345	.8924		05-11-69	0920	2ATH-KW		1,000	7,5+18	05-12-69	0645	05-12-69
184	BNW-184	PLASTC	6488	.0007		04-13-69	1058	2ATH-KW		1,000	5,3+14	04-13-69	1059	04-14-69
184	BNW-184	PLASTC	6489	.0007		04-26-69	1130	2ATH-KW		1,000	5,3+14	04-26-69	1131	04-28-69
184	BNW-184	PLASTC	6494	.0007		05-07-69	1238	2ATH-KW		1,000	5,3+14	05-07-69	1239	05-07-69
184	BNW-184	PLASTC	6495	.0007		05-08-69	1240	2ATH-KW		1,000	5,3+14	05-08-69	1241	05-08-69
184	BNW-184	PLASTC	6496	.0007		05-08-69	1242	2ATH-KW		1,000	5,3+14	05-08-69	1243	05-08-69
184	BNW-184	PLASTC	6497	.0007		05-08-69	1245	2ATH-KW		1,000	5,3+14	05-08-69	1246	05-08-69
184	BNW-184	PLASTC	6490	.0014		05-05-69	1332	2DTH-KE		1,000	1,1+15	05-05-69	1334	05-06-69
184	BNW-184	PLASTC	6491	.0014		05-05-69	1335	2DTH-KE		1,000	1,1+15	05-05-69	1337	05-06-69
184	BNW-184	PLASTC	6492	.0014		05-05-69	1339	2DTH-KE		1,000	1,1+15	05-05-69	1341	05-06-69
184	BNW-184	PLASTC	6493	.0014		05-05-69	1343	2DTH-KE		1,000	1,1+15	05-05-69	1345	05-06-69

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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														
222	BNW-243	U	P22	96,4466		11-28-68	0250	3674-KW		1.000	1,3+21	03-16-69	1800	05-09-69
222		U	P23	96,4466		11-28-68	0250	3674-KW		1.000	1,3+21	03-16-69	1800	05-09-69
243		ALCO	0182	3,3146		04-30-69	0935	2DTH-KE		1.000	2,0+18	05-03-69	1708	05-05-69
259		HASTLY	0A-G	1146,5338		12-25-64	2255	ETH -C	0-2177	1.000	4,5+21	04-25-69	1610	05-12-69
259		HASTLY	0A-H	1146,5338		12-25-64	2255	ETH -C	0-2175	1.000	4,5+21	04-25-69	1610	05-12-69
271	BNW-271	DEPU	0124	,5000		04-14-69	1020	2ATH-KW		1.000	4,2+18	04-14-69	2220	04-16-69
271	BNW-271	DEPU	0125	3,9583		04-17-69	1100	2ATH-KW		1.000	3,3+19	04-21-69	1000	04-22-69
271	BNW-271	DEPU	0126	,5000		05-06-69	1000	2DTH-KE		1.000	4,2+18	05-06-69	2200	05-08-69
271	BNW-271	DEPU	0127	2,9028		05-08-69	1300	2DTH-KE		1.000	2,5+19	05-11-69	1040	05-13-69
376		VRS	0001	412,4546		09-22-67	0608	2DTH-KE	6-2273	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0002	412,4546		09-22-67	0608	2DTH-KE	6-2272	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0003	412,4546		09-22-67	0608	2DTH-KE	6-2271	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0004	412,4546		09-22-67	0608	2DTH-KE	6-2270	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0005	412,4546		09-22-67	0608	2DTH-KE	6-2269	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0006	412,4546		09-22-67	0608	2DTH-KE	6-2268	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0007	412,4546		09-22-67	0608	2DTH-KE	6-2267	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0008	412,4546		09-22-67	0608	2DTH-KE	6-2266	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0009	412,4546		09-22-67	0608	2DTH-KE	6-2265	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0010	412,4546		09-22-67	0608	2DTH-KE	6-2264	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0011	412,4546		09-22-67	0608	2DTH-KE	6-2263	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0012	412,4546		09-22-67	0608	2DTH-KE	6-2262	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0013	412,4546		09-22-67	0608	2DTH-KE	6-2261	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0014	412,4546		09-22-67	0608	2DTH-KE	6-2260	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0015	412,4546		09-22-67	0608	2DTH-KE	6-2259	1.000	3,7+21	02-17-69	1712	05-06-69
376		VRS	0016	412,4546		09-22-67	0608	2DTH-KE	6-2258	1.000	3,7+21	02-17-69	1712	05-06-69
382	BNW-382	NAUO	0002	,4167		04-22-69	1010	ATH -C		1.000	2,5+17	04-22-69	2010	04-24-69
382	BNW-382	NAUO	0003	2,2111		04-23-69	1330	ATH -C		1.000	1,3+18	04-25-69	1610	04-28-69
382	BNW-382	NAUO	0004	3,4306		04-11-69	1740	ATH -C		1.000	8,7+18	04-15-69	0400	04-17-69
389	BNW-389	ZIRC	0001	8,7208		04-16-69	2252	CTH -C		1.000	5,9+19	04-25-69	1610	04-29-69
392	BNW-392	PU	0001	12,0527		04-03-69	0850	2BTH-KW		1.000	1,3+20	04-15-69	0940	04-18-69

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