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STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF SEPTEMBER 15, 1968

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STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF SEPTEMBER 15, 1968

L. V. Barker

September 23, 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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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	333.0402		02-12-68	2150	BTH -C	0-2068	1.000	2.3+21			
177		GRAPH	A0J4	333.0402		02-12-68	2150	BTH -C	0-2065	1.000	2.3+21			
177		GRAPH	B0J6			09-13-68	1100	BTH -C	0-2074	1.000	0.0+00			
177		GRAPH	B0J7			09-13-68	1100	BTH -C	0-2077	1.000	0.0+00			
177		GRAPH	B0J8			09-13-68	1100	BTH -C	0-2071	1.000	0.0+00			
177		GRAPH	B0K6			09-13-68	1100	BTH -C	0-2080	1.000	0.0+00			
177		GRAPH	00J2	170.1043		02-12-68	2150	BTH -C	0-2059	1.000	1.2+21			
177		GRAPH	00K9	170.1043		02-12-68	2150	BTH -C	0-2062	1.000	1.2+21			
177		GRAPH	A0A6	280.7233		09-22-67	0608	3ATH-KE	0-2984	1.000	2.6+21			
177		GRAPH	A0D2	280.7233		09-22-67	0608	3ATH-KE	0-2977	1.000	2.6+21			
177		GRAPH	A0D3	280.7233		09-22-67	0608	3ATH-KE	0-2981	1.000	2.6+21			
222		U	P21	17.7638		08-24-68	2324	3CTH-KE		1.000	2.1+20			
222		U	P-19	60.8368		05-18-68	0345	3674-KW		1.000	9.0+20			
222		U	P-20	60.8368		05-18-68	0345	3674-KW		1.000	9.0+20			
222		U	P-12	97.7173		04-01-68	0630	3865-KW		1.000	1.5+21			
222		U	P-13	97.7173		04-01-68	0630	3865-KW		1.000	1.5+21			
222		U	P-17	97.7173		04-01-68	0630	3865-KW		1.000	1.5+21			
236		STEEL	4-14	880.3071		02-28-65	1432	2CTH-KW		1.000	1.1+22			
236		ZR-NE	IV29	97.7173		04-01-68	0630	3ATH-KW		1.000	8.9+20			
236		ZR	4-28	315.1861		08-13-67	0615	3ATH-KE		1.000	2.9+21			
236		ZR-NB	IV31	97.7173		04-01-68	0630	3BTH-KW		1.000	1.2+21			
236		SS	1V36	45.3320		06-11-68	1400	3CTH-KW		1.000	5.5+20			
236		ZIRC	4-30	166.4714		01-14-68	2019	3CTH-KW		1.000	2.1+21			
236		ZIRC	4-25	166.4714		01-14-68	2019	3DTH-KW		1.000	1.5+21			
243		VRS	0162	17.5069		07-30-68	1455	4CTH-KW		1.000	2.2+20			
243		VRS	0172	17.5069		07-30-68	1455	4CTH-KW		1.000	2.2+20			
243		VRS	0175	17.5069		07-30-68	1455	4CTH-KW		1.000	2.2+20			
243		VRS	0176	17.5069		07-30-68	1455	4CTH-KW		1.000	2.2+20			
259		HASTLY	0A-G	990.1149		12-25-64	2255	ETH -C	0-2177	1.000	3.9+21			
259		HASTLY	0A-H	990.1149		12-25-64	2255	ETH -C	0-2175	1.000	3.9+21			
259		HAST	0I-3	170.1048		02-12-68	2150	ETH -C		1.000	6.6+20			
307		FLXMON	0001	1036.3071		10-20-64	0526	3BTH-KW		1.000	1.3+22			
376		VRS	0001	280.1233		09-22-67	0608	2DTH-KE	6-2273	1.000	2.6+21			
376		VRS	0002	280.1233		09-22-67	0608	2DTH-KE	6-2272	1.000	2.6+21			
376		VRS	0003	280.1233		09-22-67	0608	2DTH-KE	6-2271	1.000	2.6+21			
376		VRS	0004	280.1233		09-22-67	0608	2DTH-KE	6-2270	1.000	2.6+21			
376		VRS	0005	280.1233		09-22-67	0608	2DTH-KE	6-2269	1.000	2.6+21			
376		VRS	0006	280.1233		09-22-67	0608	2DTH-KE	6-2268	1.000	2.6+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 IN PROGRESS.														
376		VRS	0007	280.1233		09-22-67	0608	2DTH-KE	6-2267	1.000	2.6*21			
376		VRS	0008	280.1233		09-22-67	0608	2DTH-KE	6-2266	1.000	2.6*21			
376		VRS	0009	280.1233		09-22-67	0608	2DTH-KE	6-2265	1.000	2.6*21			
376		VRS	0010	280.1233		09-22-67	0608	2DTH-KE	6-2264	1.000	2.6*21			
376		VRS	0011	280.1233		09-22-67	0608	2DTH-KE	6-2263	1.000	2.6*21			
376		VRS	0012	280.1233		09-22-67	0608	2DTH-KE	6-2262	1.000	2.6*21			
376		VRS	0013	280.1233		09-22-67	0608	2DTH-KE	6-2261	1.000	2.6*21			
376		VRS	0014	280.1233		09-22-67	0608	2DTH-KE	6-2260	1.000	2.6*21			
376		VRS	0015	280.1233		09-22-67	0608	2DTH-KE	6-2259	1.000	2.6*21			
376		VRS	0016	280.1233		09-22-67	0608	2DTH-KE	6-2258	1.000	2.6*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	
243	THE FOLLOWING IRRADIATIONS ARE AWAITING DISPOSITION.	VRS	0174	12.0694	07-30-68	1455	4CTH-KW		1.000	1.5+20	09-01-68	1500	

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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 WERE SHIPPED DURING THE MONTH														
172	DECLASSIFIED	NA	1527	.2160	08-19-68	1038	ATH--C		1.000	2.4+17	08-19-68	1039	08-19-68	
172		PLA	1543	.0014	08-21-68	1023	ATH--C		1.000	1.5+15	08-21-68	1025	08-23-68	
172		PLA	1552	.5104	08-28-68	2200	ATH--C		1.000	7.8+17	08-29-68	1015	08-30-68	
172		NA	1553	2.0000	08-29-68	1340	ATH--C		1.000	3.0+18	08-31-68	1340	09-12-68	
172		NA	1554	2.0000	08-29-68	1340	ATH--C		1.000	5.1+18	08-31-68	1340	09-12-68	
172		SPI	1563	.0035	09-01-68	1417	ATH--C		1.000	1.4+16	09-01-68	1422	09-02-68	
172		NA	1535	.0208	08-20-68	0840	2ATH-KW		1.000	1.8+17	08-20-68	0910	08-26-68	
172		NA	1536	.0208	08-20-68	0840	2ATH-KW		1.000	1.8+17	08-20-68	0910	08-26-68	
172		NA	1537	.0208	08-20-68	0840	2ATH-KW		1.000	1.8+17	08-20-68	0910	08-26-68	
172		NA	1538	.0208	08-20-68	0840	2ATH-KW		1.000	1.8+17	08-20-68	0910	08-26-68	
172		NA	1539	.0208	08-20-68	0840	2ATH-KW		1.000	1.8+17	08-20-68	0910	08-26-68	
172		NA	1540	.0208	08-20-68	0840	2ATH-KW		1.000	1.8+17	08-20-68	0910	08-26-68	
172		NA	1541	.0208	08-20-68	0840	2ATH-KW		1.000	1.8+17	08-20-68	0910	08-26-68	
172		NA	1542	.0208	08-20-68	0840	2ATH-KW		1.000	1.8+17	08-20-68	0910	08-26-68	
172		TISSUE	1544	.0208	08-27-68	0835	2ATH-KW		1.000	1.8+17	08-27-68	0905	08-28-68	
172		TISSUE	1545	.0208	08-27-68	0835	2ATH-KW		1.000	1.8+17	08-27-68	0905	08-28-68	
172		TISSUE	1546	.0208	08-27-68	0835	2ATH-KW		1.000	1.8+17	08-27-68	0905	08-28-68	
172		TISSUE	1547	.0208	08-27-68	0835	2ATH-KW		1.000	1.8+17	08-27-68	0905	08-28-68	
172		TISSUE	1548	.0208	08-27-68	0835	2ATH-KW		1.000	1.8+17	08-27-68	0905	08-28-68	
172		TISSUE	1549	.0208	08-27-68	0835	2ATH-KW		1.000	1.8+17	08-27-68	0905	08-28-68	
172		TISSUE	1550	.0208	08-27-68	0835	2ATH-KW		1.000	1.8+17	08-27-68	0905	08-28-68	
172		TISSUE	1551	.0208	08-27-68	0835	2ATH-KW		1.000	1.8+17	08-27-68	0905	08-28-68	
172		TISSUE	1555	.0208	08-31-68	0903	2ATH-KW		1.000	1.8+17	08-31-68	0933	09-03-68	
172		TISSUE	1556	.0208	08-31-68	0903	2ATH-KW		1.000	1.8+17	08-31-68	0933	09-03-68	
172		TISSUE	1557	.0208	08-31-68	0903	2ATH-KW		1.000	1.8+17	08-31-68	0933	09-03-68	
172		TISSUE	1558	.0208	08-31-68	0903	2ATH-KW		1.000	1.8+17	08-31-68	0933	09-03-68	
172		TISSUE	1559	.0208	08-31-68	0903	2ATH-KW		1.000	1.8+17	08-31-68	0933	09-03-68	
172		TISSUE	1560	.0208	08-31-68	0903	2ATH-KW		1.000	1.8+17	08-31-68	0933	09-03-68	
172		TISSUE	1561	.0208	08-31-68	0903	2ATH-KW		1.000	1.8+17	08-31-68	0933	09-03-68	
172		TISSUE	1562	.0208	08-31-68	0903	2ATH-KW		1.000	1.8+17	08-31-68	0933	09-03-68	
172		NA	1564	2.0937	09-04-68	1500	2ATH-KW		1.000	1.8+19	09-06-68	1715	09-10-68	
172		TISSUE	1565	.0208	09-08-68	1052	2ATH-KW		1.000	1.8+17	09-08-68	1122	09-11-68	
172	TISSUE	1566	.0208	09-08-68	1052	2ATH-KW		1.000	1.8+17	09-08-68	1122	09-11-68		
172	TISSUE	1567	.0208	09-08-68	1052	2ATH-KW		1.000	1.8+17	09-08-68	1122	09-11-68		
172	TISSUE	1568	.0208	09-08-68	1052	2ATH-KW		1.000	1.8+17	09-08-68	1122	09-11-68		
172	TISSUE	1569	.0208	09-08-68	1052	2ATH-KW		1.000	1.8+17	09-08-68	1122	09-11-68		
172	TISSUE	1570	.0208	09-08-68	1052	2ATH-KW		1.000	1.8+17	09-08-68	1122	09-11-68		
172	TISSUE	1571	.0208	09-08-68	1052	2ATH-KW		1.000	1.8+17	09-08-68	1122	09-11-68		

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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		TISSUE	1572	.0208		09-08-68	1052	2ATH-KW		1.000	1.8+17	09-08-68	1122	09-11-68
172		TISSUE	1573	.0312		09-08-68	1222	2ATH-KW		1.000	2.6+17	09-08-68	1307	09-11-68
172		TISSUE	1574	.0312		09-08-68	1222	2ATH-KW		1.000	2.6+17	09-08-68	1307	09-11-68
172		TISSUE	1575	.0312		09-08-68	1222	2ATH-KW		1.000	2.6+17	09-08-68	1307	09-11-68
172		TISSUE	1576	.0312		09-08-68	1222	2ATH-KW		1.000	2.6+17	09-08-68	1307	09-11-68
172		TISSUE	1577	.0312		09-08-68	1222	2ATH-KW		1.000	2.6+17	09-08-68	1307	09-11-68
172		TISSUE	1578	.0312		09-08-68	1222	2ATH-KW		1.000	2.6+17	09-08-68	1307	09-11-68
172		TISSUE	1579	.0312		09-08-68	1222	2ATH-KW		1.000	2.6+17	09-08-68	1307	09-11-68
172		TISSUE	1580	.0312		09-08-68	1222	2ATH-KW		1.000	2.6+17	09-08-68	1307	09-11-68
172		WATER	1581	.0417		09-12-68	0935	2ATH-KW		1.000	3.5+17	09-12-68	1035	09-12-68
172		WATER	1582	.0417		09-12-68	0935	2ATH-KW		1.000	3.5+17	09-12-68	1035	09-12-68
172		WATER	1583	.0417		09-12-68	0935	2ATH-KW		1.000	3.5+17	09-12-68	1035	09-12-68
172		AS	1584	.0208		09-13-68	1128	2ATH-KW		1.000	1.8+17	09-13-68	1158	09-13-68
172		TISSUE	1585	.0208		09-14-68	1106	2ATH-KW		1.000	1.8+17	09-14-68	1136	09-14-68
172		TISSUE	1586	.0208		09-14-68	1106	2ATH-KW		1.000	1.8+17	09-14-68	1136	09-14-68
172		TISSUE	1587	.0208		09-14-68	1106	2ATH-KW		1.000	1.8+17	09-14-68	1136	09-14-68
172		TISSUE	1588	.0208		09-14-68	1106	2ATH-KW		1.000	1.8+17	09-14-68	1136	09-14-68
172		TISSUE	1589	.0208		09-14-68	1106	2ATH-KW		1.000	1.8+17	09-14-68	1136	09-14-68
172		TISSUE	1590	.0208		09-14-68	1106	2ATH-KW		1.000	1.8+17	09-14-68	1136	09-14-68
172		TISSUE	1591	.0208		09-14-68	1106	2ATH-KW		1.000	1.8+17	09-14-68	1136	09-14-68
172		TISSUE	1592	.0208		09-14-68	1106	2ATH-KW		1.000	1.8+17	09-14-68	1136	09-14-68
177		GRAPH	A0J1	381.8124		02-12-68	2150	BTH -C	0-2080	1.000	2.6+21	09-03-68	2345	09-10-68
177		GRAPH	A0K2	333.0402		02-12-68	2150	BTH -C	0-2074	1.000	2.3+21	09-03-68	2345	09-10-68
177		GRAPH	A0K3	333.0402		02-12-68	2150	BTH -C	0-2071	1.000	2.3+21	09-03-68	2345	09-10-68
177		GRAPH	A0K5	381.8124		02-12-68	2150	BTH -C	0-2077	1.000	2.6+21	09-03-68	2345	09-10-68
177		GRAPH	00K8	170.1043		02-12-68	2150	BTH -C	0-2083	1.000	1.2+21	09-03-68	2345	09-10-68
184		PLA	C32	.0007		08-19-68	1035	ATH -C		1.000	1.1+15	08-19-68	1036	08-20-68
184		PLA	C33	.0007		08-21-68	1337	ATH -C		1.000	1.1+15	08-21-68	1338	08-22-68
184		PLA	C34	.3333		08-27-68	1340	ATH -C		1.000	1.4+18	08-27-68	2140	09-03-68
184		PLA	C35	.3333		08-28-68	1120	ATH -C		1.000	1.4+18	08-28-68	1920	08-30-68
184		PLA	C36	.0007		09-01-68	1414	ATH -C		1.000	1.1+15	09-01-68	1415	09-03-68
184		PLA	C37	.6667		09-02-68	1445	ATH -C		1.000	3.9+17	09-03-68	0645	09-03-68
184		VAR	3118	.8333		08-18-68	1045	2ATH-KW		1.000	7.0+18	08-19-68	0645	08-19-68
184		VAR	3119	.8611		08-19-68	1005	2ATH-KW		1.000	7.3+18	08-20-68	0645	08-20-68
184		VAR	3120	.8611		08-19-68	1005	2ATH-KW		1.000	7.3+18	08-20-68	0645	08-20-68
184		VAR	3121	.8194		08-20-68	1102	2ATH-KW		1.000	6.9+18	08-21-68	0642	08-21-68
184		VAR	3122	.8194		08-20-68	1102	2ATH-KW		1.000	6.9+18	08-21-68	0642	08-21-68
184		VAR	3123	.8264		08-21-68	1055	2ATH-KW		1.000	7.0+18	08-22-68	0645	08-22-68

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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														
184		VAR	3124	.8264		08-21-68	1055	2ATH-KW		1.000	7.0+18	08-22-68	0645	08-22-68
184		VAR	3125	.8472		08-25-68	1025	2ATH-KW		1.000	7.2+18	08-26-68	0645	08-26-68
184		VAR	3126	.8472		08-25-68	1025	2ATH-KW		1.000	7.2+18	08-26-68	0645	08-26-68
184		VAR	3127	.8681		08-26-68	0950	2ATH-KW		1.000	7.3+18	08-27-68	0645	08-27-68
184		VAR	3128	.8681		08-26-68	0950	2ATH-KW		1.000	7.3+18	08-27-68	0645	08-27-68
184		VAR	3129	.8194		08-27-68	1105	2ATH-KW		1.000	6.9+18	08-28-68	0645	08-28-68
184		VAR	3130	.8194		08-27-68	1105	2ATH-KW		1.000	6.9+18	08-28-68	0645	08-28-68
184		VAR	3131	.8646		08-28-68	1000	2ATH-KW		1.000	1.3+18	08-29-68	0645	08-29-68
184		VAR	3132	.8646		08-28-68	1000	2ATH-KW		1.000	1.3+18	08-29-68	0645	08-29-68
184		VAR	3135	.8437		09-09-68	1030	2ATH-KW		1.000	7.1+18	09-10-68	0645	09-10-68
184		VAR	3136	.8437		09-09-68	1030	2ATH-KW		1.000	7.1+18	09-10-68	0645	09-10-68
184		VAR	3137	.8646		09-10-68	1000	2ATH-KW		1.000	1.3+18	09-11-68	0645	09-11-68
184		VAR	3138	.8646		09-10-68	1000	2ATH-KW		1.000	1.3+18	09-11-68	0645	09-11-68
184		VAR	3139	.8576		09-11-68	1010	2ATH-KW		1.000	7.3+18	09-12-68	0645	09-12-68
184		VAR	3140	.8576		09-11-68	1010	2ATH-KW		1.000	7.3+18	09-12-68	0645	09-12-68
184		VAR	3141	.8229		09-12-68	1100	2ATH-KW		1.000	1.3+18	09-13-68	0645	09-13-68
184		VAR	3142	.8229		09-12-68	1100	2ATH-KW		1.000	1.3+18	09-13-68	0645	09-13-68
184		PLA	6436	.0139		09-11-68	0950	2ATH-KW		1.000	1.1+16	09-11-68	1010	09-12-68
184		PLA	6437	.0014		09-12-68	1033	2ATH-KW		1.000	1.1+15	09-12-68	1035	09-13-68
184		PLA	6438	.0139		09-14-68	1038	2ATH-KW		1.000	1.1+16	09-14-68	1058	09-16-68
184		VAR	3133	.8924		09-08-68	0925	2DTH-KE		1.000	7.5+18	09-09-68	0650	09-09-68
184		VAR	3134	.8924		09-08-68	0925	2DTH-KE		1.000	7.5+18	09-09-68	0650	09-09-68
184		PLA	6435	.0069		09-08-68	0912	2DTH-KE		1.000	5.3+15	09-08-68	0922	09-04-68
243		VRS	0173	10.0243		07-30-68	1455	4CTH-KW		1.000	1.3+20	08-13-68	1300	08-20-68
271		DEP-U	0102	2.8854		09-05-68	1115	2ATH-KW		1.000	2.4+19	09-08-68	0830	09-11-68
271		DEP-U	0103	6.0104		09-09-68	1100	2DTH-KE		1.000	5.1+19	09-15-68	1115	09-15-68
271		DEP-U	0104	4.0000		09-09-68	1100	2DTH-KE		1.000	3.4+19	09-13-68	1100	09-15-68
381		U	0001	.7500		09-04-68	1500	2ATH-KW		1.000	6.3+18	09-05-68	0900	09-10-68
381		U	0002	.7500		09-04-68	1500	2ATH-KW		1.000	6.3+18	09-05-68	0900	09-10-68
381		PU	0003	4.7569		09-09-68	1450	2BTH-KE		1.000	5.6+19	09-14-68	0900	09-15-68
383		AS	0001	.0417		08-27-68	1025	ATH -C		1.000	4.9+17	08-27-68	1125	08-28-68

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