



International Atomic Energy Agency

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INTERNATIONAL NUCLEAR DATA COMMITTEE

INDEX OF NEUTRON-INDUCED GAMMA PRODUCTION DATA
INCLUDED IN ENDF FORMATTED LIBRARIES AVAILABLE FROM THE
IAEA NUCLEAR DATA SECTION

O. Schwerer, H.D. Lemmel
International Atomic Energy Agency
Nuclear Data Section

March 1987

IAEA NUCLEAR DATA SECTION, WAGRAMERSTRASSE 5, A-1400 VIENNA

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Abstract

This document gives a summary of the gamma production data contained in various evaluated neutron cross section libraries in ENDF/B format. A nuclide index, combined from all relevant libraries, and a detailed index at reaction type level by data library and material number, are given. Selective retrievals of such data may be obtained, free of charge, from the IAEA Nuclear Data Section.

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Index of Neutron-Induced Gamma Production Data Included in
ENDF Formatted Libraries Available from the
IAEA Nuclear Data Section

Introduction

A number of ENDF-formatted evaluated neutron data libraries available at the IAEA Nuclear Data Section contain gamma production data at least for some materials:

<u>Page</u>	<u>Short Title</u>	<u>Long Title</u>	<u>Documentation</u>
8	ENDF4- GP	ENDF/B 4 General Purpose File (USA,1974)	IAEA- NDS- 23, Rev.2
17	ENDL- 84/V	ENDL (Livermore 1984), converted to ENDF/B- 5 format	IAEA- NDS- 11, Rev.4
30	ENDF5- FP1	ENDF/B 5 Fission Product File, Part 1 (USA, 1984)	IAEA- NDS- 25, Rev.2
32	ENDF5- ST	ENDF/B- 5 Standards File (USA, rev. 1986)	IAEA- NDS- 15, Rev.2
33	ENDF5- ACT	ENDF/B- 5 Actinides File (USA, rev. 1986)	IAEA- NDS- 13, Rev.5
37	INDL- 86/5	INDL/A Supplement 86/5 (Minsk, 1986)	IAEA- NDS- 12, Suppl.86/5
38	INDL/A- 83	IAEA Actinide Library (1983)	IAEA- NDS- 12, Rev.7
39	INDL/F- 83*)	IAEA Library for INTOR fusion calculations (1983)	IAEA- NDS- 57
42	INDL/V- 85	IAEA Evaluated Nuclear Data Library (1985)	IAEA- NDS- 31, Rev.3

The following data types may be given in an ENDF formatted file:

<u>File Number (MF)</u>	<u>Class of Data</u>
12	Multiplicities for photons (from neutron reactions)
13	Cross Sections for photons (from neutron reactions)
14	Angular distributions of photons (from neutron reactions)
15	Energy distributions of photons (from neutron reactions)
16	Energy- angular distributions of photons (from neutron reactions)
17	Time dependent discrete photon production data
18	Time dependent continuum photon production data

*) This file contains only data collected from other libraries.

Photon production data may be given for the following neutron-induced reactions:

<u>Reaction Type</u> <u>Number</u>	<u>MT</u>	<u>Description of Reaction</u>
	3	Non-elastic section (redundant, equal to the sum of all partial cross sections except elastic scattering)
	4	Total inelastic cross section (redundant, equal to the sum of MT = 51, 52, 53, ..., 90, 91)
	16	(n,2n) cross section
	17	(n,3n) cross section
	18	Total fission cross section
	22	(n,n' α) cross section
	28	(n,n'p) cross section
	51	(n,n') to the first excited state
	52	(n,n') to the second excited state
	.	.
	.	.
	90	(n,n') to the 40th excited state
	91	(n,n') to the continuum
	102	(n, γ) radiative capture cross section
	103	(n,p) cross section
	104	(n,d) cross section
	105	(n,t) cross section
	107	(n, α) cross section
	719	(n,p _C ') cross section for continuum specifically not included in σ total (redundant, used for describing outgoing proton)
	741	(n,t ₁) cross section for 1st excited state
	781	(n, α ₁) cross section for 1st excited state
	799	(n, α _C ') cross section for continuum specifically not included in σ_T (redundant, used to describe outgoing α)

The Nuclide Index on pages 5 to 7 gives an overview, for which nuclides data are available in any of the libraries and is sorted by nuclide. Each index line gives nuclide, institute, year of evaluation, authors, material number (MAT) and library name.

If there are several evaluations for one nuclide, in general the more recent evaluation should be recommended: see the library release date in the above table and the evaluation date (if given) in the detailed index. Note, however, that these dates must be treated with caution: even if the evaluation date appears to be quite recent, the gamma-production data may have been taken over unchanged from an old evaluation! Not for all of the evaluations the documentation in Section MF/MT = 1451 will give sufficient information.

The detailed indexes for each library (starting on page 8) were produced as selective retrievals of the index part of the "general information" section (MF/MT = 1451) and are sorted by MAT number within each library. From each material a header line is printed and all index lines from the gamma production files MF = 12-18. If only the header line is printed, no gamma production data are included for this material.

Each index line contains file number (MF) and reaction type number (MT) as defined above, no. of cards for this section, MAT, MF/MT = 1451, and a sequential number.

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1-H	-	1	LASL	EVAL-AUG70	L.STEWART, R.J.LABAUVE, P.G.YOUNG	ENDF4-GP	1269
1-H	-	1	LASL	EVAL-AUG70	L.STEWART, R.J.LABAUVE, P.G.YOUNG	ENDF5-ST	1301
1-H	-	1	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7801
1-H	-	2	BNW	EVAL-JUN67	B.R.LEONARD, JR. AND K.B.STEWART	ENDF4-GP	1120
2-HE	-	3	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7804
3-LI	-	6	LASL	EVAL-APR74	G.M.HALE, D.DODDER, P.YOUNG +	ENDF4-GP	1271
3-LI	-	6	LASL	EVAL-SEP77	G.HALE, L.STEWART, P.G.YOUNG	ENDF5-ST	1303
3-LI	-	6	LASL	EVAL-SEP77	G.HALE, L.STEWART, P.G.YOUNG	INDL/F-83	1303
3-LI	-	6	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7806
3-LI	-	7	LASL	EVAL-OCT72	R.J.LABAUVE, L.STEWART, M.BATTAT	ENDF4-GP	1272
3-LI	-	7	LASL	EVAL-OCT72	R.J.LABAUVE, L.STEWART, M.BATTAT	INDL/F-83	1272
3-LI	-	7	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7807
4-BE	-	9	LLL	EVAL-DEC71	HOWERTON, PERKINS	ENDF4-GP	1289
4-BE	-	9	LLL	EVAL-DEC71	HOWERTON, PERKINS	INDL/F-83	1289
5-B	-	10	LASL	EVAL-DEC76	G.HALE, L.STEWART, P.YOUNG	ENDF5-ST	1305
5-B	-	10	LASL	EVAL-DEC76	G.HALE, L.STEWART, P.YOUNG	INDL/F-83	1305
5-B	-	10	LASL	EVAL-NOV73	G.M.HALE, R.A.NISLEY, P.G.YOUNG	ENDF4-GP	1273
5-B	-	10	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7810
5-B	-	11	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7811
5-B	-	11	LLL	EVAL-MAY78	R.J.HOWERTON	INDL/F-83	7811
6-C	-		ORNL	EVAL-DEC73	C.Y.FU AND F.G.PEREY	ENDF5-ST	1306
6-C	-		ORNL	EVAL-DEC73	C.Y.FU AND F.G.PEREY	INDL/F-83	1306
6-C	-	12	ORNL	EVAL-DEC73	F.G.PEREY AND C.Y.FU	ENDF4-GP	1274
6-C	-	12	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7812
6-C	-	12	2FR BRC	EVAL-OCT75	J.LACHKAR, F.COCU, G.HAOUAT ET AL.	INDL/V-85	620
7-N	-	14	LASL	EVAL-JUL73	P.YOUNG, D.FOSTER, JR, G.HALE	ENDF4-GP	1275
7-N	-	14	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7813
8-O	-	16	LASL	EVAL-AUG73	P.YOUNG, D.FOSTER, JR, G.HALE	ENDF4-GP	1276
8-O	-	16	LASL	EVAL-AUG73	P.YOUNG, D.FOSTER, JR, G.HALE	INDL/F-83	1276
8-O	-	16	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7814
9-F	-		ORNL	EVAL-JUL74	C.Y.FU, D.C.LARSON, F.G.PEREY	ENDF4-GP	1277
9-F	-	19	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7815
11-NA	-	23	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7816
11-NA	-	23	WARD-ORNL	EVAL-1971	PAIK AND PITTLERLE (WARD PEREY (ORNL	ENDF4-GP	1156
12-MG	-		GRT, SAI	EVAL-FEB74	M.K.DRAKE AND M.P.FRICK	ENDF4-GP	1280
12-MG	-	0	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7817
13-AL	-	27	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7819
13-AL	-	27	LASL	EVAL-DEC73	P.G.YOUNG, D.G.FOSTER, JR.	ENDF4-GP	1193
13-AL	-	27	LASL	EVAL-DEC73	P.G.YOUNG, D.G.FOSTER, JR.	INDL/F-83	1193
14-SI	-		ORNL	EVAL-FEB74	LARSON, PEREY, DRAKE, YOUNG	ENDF4-GP	1194
14-SI	-		3DDRTUD	EVAL-AUG81	HERMSDORF, NEUMANN, PAFFRATH, PHILIP	INDL/V-85	1415
14-SI	-	0	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7820
15-P	-	31	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7821
16-S	-	32	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7822
17-CL	-		GGA	EVAL-FEB67	M.S.ALLEN AND M.K.DRAKE	ENDF4-GP	1149
17-CL	-	0	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7823
18-AR	-	0	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7824
19-K	-		GGA	EVAL-1967	M.K.DRAKE	ENDF4-GP	1150
19-K	-	0	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7825
20-CA	-		ORNL	EVAL-AUG71	FU, PEREY	ENDF4-GP	1195
20-CA	-	0	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7826
22-TI	-		LLL	EVAL-APR74	R.J.HOWERTON, R.HAIGHT, S.T.PERKINS	ENDF4-GP	1286
22-TI	-	0	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7828
23-V	-		ORNL	EVAL-SEP72	S.K.PENNY, L.W.OWEN	ENDF4-GP	1196
23-V	-		ORNL	EVAL-SEP72	S.K.PENNY, L.W.OWEN	INDL/F-83	1196
23-V	-	51	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7829
24-CR	-		BNL(NNCSC)	EVAL-APR74	A.PRINCE	ENDF4-GP	1191
24-CR	-		BNL(NNCSC)	EVAL-APR74	A.PRINCE	INDL/F-83	1191
24-CR	-	0	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7830
25-MN	-	55	BNL	EVAL-FEB74	H.TAKAHASHI	ENDF4-GP	1197
25-MN	-	55	BNL	EVAL-FEB74	H.TAKAHASHI	INDL/F-83	1197
25-MN	-	55	LIVERMORE	EVAL-	R.J.HOWERTON	ENDL-84/V	7831
26-FE	-		ORNL	EVAL-JAN74	PEREY, FU, PENNY, KINNEY, WRIGHT	ENDF4-GP	1192

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26-FE-	0 LIVERMORE	EVAL-	R. J. HOWERTON	ENDL-84/V	7832
27-CO-	59 LIVERMORE	EVAL-	R. J. HOWERTON	ENDL-84/V	7835
27-CO-	59 BNL, ANL	EVAL-JAN74	T. KRIEGER (BNL), A. B. SMITH, D. SMITH	ENDF4-GP	1199
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28-NI	BNL (NNCSC)	EVAL-DEC73	M. R. BHAT	INDL/F-83	1190
28-NI-	0 LIVERMORE	EVAL-	R. J. HOWERTON	ENDL-84/V	7836
28-NI-	58 LIVERMORE	EVAL-	R. J. HOWERTON	ENDL-84/V	7837
28-NI-	58 LLL	EVAL-MAY78	R. J. HOWERTON	INDL/F-83	7837
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29-CU	SAI	EVAL-NOV73	M. K. DRAKE AND M. P. FRICKE	INDL/F-83	1295
29-CU-	0 LIVERMORE	EVAL-	R. J. HOWERTON	ENDL-84/V	7838
31-GA-	0 LIVERMORE	EVAL-	R. J. HOWERTON	ENDL-84/V	7840
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40-ZR-	0 LIVERMORE	EVAL-	R. J. HOWERTON	ENDL-84/V	7841
41-NB-	93 ANL, LLL	EVAL-MAY74	R. HOWERTON (LLL) AND A. SMITH	ENDF4-GP	1189
41-NB-	93 ANL, LLL	EVAL-MAY74	R. HOWERTON (LLL) AND A. SMITH	ENDF5-FP1	1189
41-NB-	93 ANL, LLL	EVAL-MAY74	R. HOWERTON (LLL) AND A. SMITH	INDL/F-83	1189
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63-EU-151	BNL	EVAL-DEC73	H. TAKAHASHI	ENDF4-GP	1290
63-EU-151	BNL	EVAL-DEC77	S. F. MUGHABGHAB	ENDF5-FP1	1357
63-EU-153	BNL	EVAL-DEC73	H. TAKAHASHI	ENDF4-GP	1291
63-EU-153	BNL	EVAL-FEB78	S. MUGHABGHAB	ENDF5-FP1	1359
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73-TA-181	LLL	EVAL-JAN72	HOWERTON, PERKINS, MACGREGOR	ENDF4-GP	1285
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74-W-183	AI, LASL	EVAL-JUN73	OTTER, OTTEWITTE, ROSE, YOUNG	ENDF4-GP	1129
74-W-184	AI, LASL	EVAL-JUN73	OTTER, OTTEWITTE, ROSE, YOUNG	ENDF4-GP	1130
74-W-186	AI, LASL	EVAL-JUN73	OTTER, OTTEWITTE, ROSE, YOUNG	ENDF4-GP	1131
75-RE-185	LIVERMORE	EVAL-	R. J. HOWERTON	ENDL-84/V	7856
75-RE-187	LIVERMORE	EVAL-	R. J. HOWERTON	ENDL-84/V	7859
78-PT-	0 LIVERMORE	EVAL-	R. J. HOWERTON	ENDL-84/V	7860
79-AU-197	LIVERMORE	EVAL-	R. J. HOWERTON	ENDL-84/V	7861
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82-PB	ORNL	EVAL-JUL71	C. Y. FU AND F. G. PEREY	INDL/F-83	1288
82-PB-	0 LIVERMORE	EVAL-	R. J. HOWERTON	ENDL-84/V	7862
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92-U -234	LIVERMORE	EVAL-	R. J. HOWERTON	ENDL-84/V	7867
92-U -235	BNL	EVAL-APR77	M. R. BHAT	ENDF5-ACT	1395
92-U -235	BNL	EVAL-APR77	M. R. BHAT	ENDF5-ST	1395
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92-U -238	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7871
92-U- 238	WARD EVAL-SEP73	N.C. PAIK	ENDF4-GP	1262
92-U -239	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7872
92-U -240	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7873
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93-NP-236	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	8308
93-NP-237	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7874
93-NP-238	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	8309
93-NP-238	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	8309
94-PU-238	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7875
94-PU-239	ITMO EVAL-SEP80	KON'SHIN, SUKHOVITSKII, ANTSIPOV	INDL/A-83	9421
94-PU-239	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7876
94-PU-239	4CCPIJE EVAL- 84	KON'SHIN, SUKHOVITSKII, ANTSIPOV	INDL-86/5	9421
94-PU-239	4CCPIJE EVAL-SEP80	KON'SHIN, SUKHOVITSKII, ANTSIPOV	INDL/V-85	9421
94-PU-239,	GE-BRO, LAS EVAL-MAR74	B.A.HUTCHINS, R.HUNTER, L.STEWART	ENDF4-GP	1264
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94-PU-240	IHMT EVAL-DEC80	KON'SHIN, SUKHOVITSKII, ANTSIPOV	INDL/A-83	9431
94-PU-240	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7877
94-PU-240	4CCPIJE EVAL-DEC80	KON'SHIN, SUKHOVITSKII, ANTSIPOV	INDL-86/5	9431
94-PU-240	4CCPIJE EVAL-DEC80	KON'SHIN, SUKHOVITSKII, ANTSIPOV	INDL/V-85	9431
94-PU-241	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7878
94-PU-241	4CCPIJE EVAL-FEB79	KON'SHIN, SUKHOVITSKII, ANTSIPOV	INDL-86/5	9441
94-PU-242	HEDL, SRL, + EVAL-OCT78	MANN, BENJAMIN, MADLAND, HOWERTON, +	ENDF5-ACT	1342
94-PU-242	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7880
94-PU-242	4CCPIJE EVAL-DEC80	KON'SHIN, SUKHOVITSKII, ANTSIPOV	INDL-86/5	9450
94-PU-242	4CCPIJE EVAL-MAY79	KON'SHIN, SUKHOVITSKII, ANTSIPOV	INDL/V-85	9450
94-PU-243	BNL, SRL, LLLEVAL-JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)	ENDF5-ACT	8443
94-PU-243	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7881
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95-AM-241	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7882
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95-AM-243	HEDLSRLLLL EVAL-APR78	MANN, BENJAMIN, HOWERTON, ET AL.	ENDF5-ACT	1363
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96-CM-242	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7885
96-CM-243	HEDLSRLLLL EVAL-APR78	MANN, BENJAMIN, HOWERTON, ET AL.	ENDF5-ACT	1343
96-CM-243	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7886
96-CM-244	HEDLSRLLLL EVAL-APR78	MANN, BENJAMIN, HOWERTON, ET AL.	ENDF5-ACT	1344
96-CM-244	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7887
96-CM-245	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7888
96-CM-245	SRL, LLL EVAL-JAN79	BENJAMIN AND HOWERTON	ENDF5-ACT	1345
96-CM-246	BNL, SRL, LLLEVAL-JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)	ENDF5-ACT	1346
96-CM-246	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7889
96-CM-247	BNL, SRL, LLLEVAL-JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)	ENDF5-ACT	8647
96-CM-247	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7890
96-CM-248	HEDLSRLLLL EVAL-APR78	MANN, BENJAMIN, HOWERTON, ET AL.	ENDF5-ACT	8648
96-CM-248	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7891
97-BK-249	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7892
97-BK-249	SRL, LLL EVAL-JAN79	BENJAMIN(SRL), HOWERTON(LLL)	ENDF5-ACT	8749
98-CF-249	BNL, SRL, LLLEVAL-JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)	ENDF5-ACT	8849
98-CF-249	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7893
98-CF-250	BNL, SRL, LLLEVAL-JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)	ENDF5-ACT	8850
98-CF-250	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7894
98-CF-251	BNL, SRL, LLLEVAL-JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)	ENDF5-ACT	8851
98-CF-251	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7895
98-CF-252	BNL, SRL, LLLEVAL-JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)	ENDF5-ACT	8852
98-CF-252	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7896
FISS.PROD	LIVERMORE EVAL-	R.J.HOWERTON	ENDL-84/V	7897

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62-SM-149	BNW	EVAL-JUN67	B.R.LEONARD, JR. AND K.B.STEWART	1027	1451	3	
64-GD	ANL	EVAL-OCT66	E.M.PENNINGTON AND J.C.GAJNIAK	1030	1451	3	
66-DY-164	BNW	EVAL-JUN67	B.R.LEONARD, JR. AND K.B.STEWART	1031	1451	3	
71-LU-175	BNW	EVAL-JUN67	B.R.LEONARD, JR. AND K.B.STEWART	1032	1451	3	
71-LU-176	BNW	EVAL-JUN67	B.R.LEONARD, JR. AND K.B.STEWART	1033	1451	3	
92-U -234	GGA	EVAL-JAN67	DRAKE AND NICHOLS	1043	1451	3	
94-PU-238	AI	EVAL-MAY67	ALTER AND DUNFORD	1050	1451	3	
95-AM-241	ANC	EVAL-NOV66	J.R.SMITH AND R.A.GRIMSEY	1056	1451	3	
95-AM-243	ANC	EVAL-NOV66	J.R.SMITH AND R.A.GRIMSEY	1057	1451	3	
75-RE-185	GE(NMPO)	EVAL-JAN68	W.B.HENDERSON AND J.W.ZWICK	1083	1451	3	
75-RE-187	GE(NMPO)	EVAL-JAN68	W.B.HENDERSON AND J.W.ZWICK	1084	1451	3	
1-H - 2	BNW	EVAL-JUN67	B.R.LEONARD, JR. AND K.B.STEWART	1120	1451	3	
		12	102	4	1120	1451	86
		14	102	1	1120	1451	87
45-RH-103	BAW	EVAL-OCT71	Z.LIVOLSI	1125	1451	3	
73-TA-182	AI	EVAL-APR71	J.OTTER, C.DUNFORD, AND E.OTTEWITTE	1127	1451	3	
74-W-182	AI, LASL	EVAL-JUN73	OTTER, OTTEWITTE, ROSE, YOUNG	1128	1451	3	
		12	102	15	1128	1451	337
		13	4	214	1128	1451	338
		14	4	1	1128	1451	339
		14	102	1	1128	1451	340
		15	4	883	1128	1451	341
		15	102	409	1128	1451	342
74-W-183	AI, LASL	EVAL-JUN73	OTTER, OTTEWITTE, ROSE, YOUNG	1129	1451	3	
		12	102	15	1129	1451	338
		13	4	359	1129	1451	339
		14	4	1	1129	1451	340
		14	102	1	1129	1451	341
		15	4	842	1129	1451	342
		15	102	451	1129	1451	343
74-W-184	AI, LASL	EVAL-JUN73	OTTER, OTTEWITTE, ROSE, YOUNG	1130	1451	3	
		12	102	14	1130	1451	339
		13	4	136	1130	1451	340
		14	4	1	1130	1451	341
		14	102	1	1130	1451	342
		15	4	859	1130	1451	343
		15	102	369	1130	1451	344
74-W-186	AI, LASL	EVAL-JUN73	OTTER, OTTEWITTE, ROSE, YOUNG	1131	1451	3	
		12	102	15	1131	1451	339
		13	4	133	1131	1451	340
		14	4	1	1131	1451	341
		14	102	1	1131	1451	342
		15	4	842	1131	1451	343
		15	102	373	1131	1451	344
43-TC-99	BAW	EVAL-OCT71	Z.LIVOLSI	1137	1451	3	
47-AG-107	BNL-NNCSC	EVAL-OCT71	M.R.BHAT, A.PRINCE	1138	1451	3	
47-AG-109	BNL-NNCSC	EVAL-OCT71	M.R.BHAT, A.PRINCE	1139	1451	3	
55-CS-133	BNL-NNCSC	EVAL-OCT71	M.R.BHAT, A.PRINCE	1141	1451	3	
2-HE- 3	LASL	EVAL-1968	L.STEWART	1146	1451	3	
17-CL	GGA	EVAL-FEB67	M.S.ALLEN AND M.K.DRAKE	1149	1451	3	
		12	51	3	1149	1451	254
		12	52	3	1149	1451	255
		12	53	3	1149	1451	256
		12	54	3	1149	1451	257
		12	55	3	1149	1451	258
		12	56	3	1149	1451	259
		12	57	3	1149	1451	260
		12	58	3	1149	1451	261
		12	59	3	1149	1451	262
		12	60	3	1149	1451	263
		12	61	3	1149	1451	264
		12	91	6	1149	1451	265
		12	102	97	1149	1451	266

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		13	3	41	1149	1451	267
		13	51	7	1149	1451	268
		13	52	7	1149	1451	269
		13	53	7	1149	1451	270
		13	54	19	1149	1451	271
		13	55	7	1149	1451	272
		13	56	19	1149	1451	273
		13	57	25	1149	1451	274
		13	58	7	1149	1451	275
		13	59	19	1149	1451	276
		13	60	7	1149	1451	277
		13	61	7	1149	1451	278
		14	3	1	1149	1451	279
		14	51	1	1149	1451	280
		14	52	114	1149	1451	281
		14	53	96	1149	1451	282
		14	54	191	1149	1451	283
		14	55	87	1149	1451	284
		14	56	173	1149	1451	285
		14	57	205	1149	1451	286
		14	58	1	1149	1451	287
		14	59	119	1149	1451	288
		14	60	51	1149	1451	289
		14	61	51	1149	1451	290
		14	91	1	1149	1451	291
		14	102	1	1149	1451	292
		15	91	90	1149	1451	293
19-K	GGA	EVAL-1967	M.K.DRAKE		1150	1451	3
		12	51	3	1150	1451	295
		12	52	3	1150	1451	296
		12	53	3	1150	1451	297
		12	54	3	1150	1451	298
		12	91	6	1150	1451	299
		12	102	145	1150	1451	300
		12	103	39	1150	1451	301
		12	107	9	1150	1451	302
		13	51	16	1150	1451	303
		13	52	16	1150	1451	304
		13	53	16	1150	1451	305
		13	54	15	1150	1451	306
		13	55	14	1150	1451	307
		13	56	14	1150	1451	308
		14	51	1	1150	1451	309
		14	52	96	1150	1451	310
		14	53	87	1150	1451	311
		14	54	24	1150	1451	312
		14	55	78	1150	1451	313
		14	56	69	1150	1451	314
		14	91	1	1150	1451	315
		14	102	1	1150	1451	316
		14	103	1	1150	1451	317
		14	107	1	1150	1451	318
		15	91	90	1150	1451	319
11-NA-23	WARD-ORNL	EVAL-1971	PAIK AND PITTERLE(WARD PEREY(ORNL		1156	1451	3
		12	51	3	1156	1451	232
		12	52	3	1156	1451	233
		12	53	3	1156	1451	234
		12	54	3	1156	1451	235
		12	55	3	1156	1451	236
		12	56	3	1156	1451	237
		12	57	4	1156	1451	238
		12	58	4	1156	1451	239
		12	59	3	1156	1451	240

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		12	60	3	1156	1451	241
		12	61	3	1156	1451	242
		12	62	3	1156	1451	243
		12	63	3	1156	1451	244
		12	64	3	1156	1451	245
		12	65	3	1156	1451	246
		12	66	5	1156	1451	247
		12	67	5	1156	1451	248
		12	68	5	1156	1451	249
		12	91	7	1156	1451	250
		12	102	187	1156	1451	251
		14	51	1	1156	1451	252
		14	52	1	1156	1451	253
		14	53	1	1156	1451	254
		14	54	1	1156	1451	255
		14	55	1	1156	1451	256
		14	56	1	1156	1451	257
		14	57	1	1156	1451	258
		14	58	1	1156	1451	259
		14	59	1	1156	1451	260
		14	60	1	1156	1451	261
		14	61	1	1156	1451	262
		14	62	1	1156	1451	263
		14	63	1	1156	1451	264
		14	64	1	1156	1451	265
		14	65	1	1156	1451	266
		14	66	1	1156	1451	267
		14	67	1	1156	1451	268
		14	68	1	1156	1451	269
		14	91	1	1156	1451	270
		14	102	1	1156	1451	271
		15	91	59	1156	1451	272
5-B-11	GE-BNL				1160	1451	3
94-PU-242	AI + ANC				1161	1451	3
96-CM-244	AI + ANC				1162	1451	3
92-U -236	SRL				1163	1451	3
1-H - 3	LASL				1169	1451	3
54-XE-124	BNL				1170	1451	3
54-XE-126	BNL				1171	1451	3
54-XE-128	BNL				1172	1451	3
54-XE-129	BNL				1173	1451	3
54-XE-130	BNL				1174	1451	3
54-XE-131	BNL				1175	1451	3
54-XE-132	BNL				1176	1451	3
54-XE-134	BNL				1177	1451	3
54-XE-136	BNL				1178	1451	3
36-KR- 78	BNL				1181	1451	3
36-KR- 80	BNL				1182	1451	3
36-KR- 82	BNL				1183	1451	3
36-KR- 83	BNL				1184	1451	3
36-KR- 84	BNL				1185	1451	3
36-KR- 86	BNL				1186	1451	3
41-NB- 93	ANL,LLL				1189	1451	3
		12	102	5	1189	1451	128
		13	3	10	1189	1451	129
		14	3	1	1189	1451	130
		14	102	1	1189	1451	131
		15	3	412	1189	1451	132
		15	102	22	1189	1451	133
28-NI	BNL(NNCSC)				1190	1451	3
		12	102	6	1190	1451	215
		13	3	11	1190	1451	216
		14	3	1	1190	1451	217

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			14	102	1	1190	1451	218
			15	3	366	1190	1451	219
			15	102	66	1190	1451	220
24-CR	BNL(NNCSC)	EVAL-APR74	A.PRINCE			1191	1451	3
			12	102	4	1191	1451	263
			13	3	9	1191	1451	264
			14	3	1	1191	1451	265
			14	102	1	1191	1451	266
			15	3	384	1191	1451	267
			15	102	36	1191	1451	268
26-FE	ORNL	EVAL-JAN74	PEREY, FU, PENNY, KINNEY, WRIGHT			1192	1451	3
			12	3	13	1192	1451	320
			12	51	4	1192	1451	321
			12	52	4	1192	1451	322
			12	102	10	1192	1451	323
			14	3	1	1192	1451	324
			14	51	1	1192	1451	325
			14	52	1	1192	1451	326
			14	102	1	1192	1451	327
			15	3	883	1192	1451	328
			15	102	1186	1192	1451	329
13-AL-27	LASL	EVAL-DEC73	P.G.YOUNG, D.G.FOSTER, JR.			1193	1451	3
			12	102	271	1193	1451	394
			13	4	917	1193	1451	395
			13	28	115	1193	1451	396
			13	103	120	1193	1451	397
			14	4	1	1193	1451	398
			14	28	1	1193	1451	399
			14	102	1	1193	1451	400
			14	103	1	1193	1451	401
			15	4	342	1193	1451	402
			15	28	104	1193	1451	403
14-SI	ORNL	EVAL-FEB74	LARSON, PEREY, DRAKE, YOUNG			1194	1451	3
			12	102	173	1194	1451	421
			13	4	62	1194	1451	422
			13	22	6	1194	1451	423
			13	28	6	1194	1451	424
			13	103	14	1194	1451	425
			13	107	12	1194	1451	426
			14	4	1	1194	1451	427
			14	22	1	1194	1451	428
			14	28	1	1194	1451	429
			14	102	1	1194	1451	430
			14	103	1	1194	1451	431
			14	107	1	1194	1451	432
			15	4	2120	1194	1451	433
			15	22	144	1194	1451	434
			15	28	211	1194	1451	435
			15	103	864	1194	1451	436
			15	107	780	1194	1451	437
20-CA	ORNL	EVAL-AUG71	FU, PEREY			1195	1451	3
			12	4	25	1195	1451	241
			12	22	6	1195	1451	242
			12	28	7	1195	1451	243
			12	102	4	1195	1451	244
			12	103	11	1195	1451	245
			12	107	9	1195	1451	246
			14	4	1	1195	1451	247
			14	22	1	1195	1451	248
			14	28	1	1195	1451	249
			14	102	1	1195	1451	250
			14	103	1	1195	1451	251
			14	107	1	1195	1451	252

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		15	4	762	1195	1451	253
		15	22	97	1195	1451	254
		15	28	145	1195	1451	255
		15	102	32	1195	1451	256
		15	103	636	1195	1451	257
		15	107	669	1195	1451	258
23-V	ORNL	EVAL-SEP72	S.K.PENNY, L.W.OWEN		1196	1451	3
		12	3	11	1196	1451	142
		12	16	9	1196	1451	143
		12	22	9	1196	1451	144
		12	28	9	1196	1451	145
		12	102	9	1196	1451	146
		14	3	1	1196	1451	147
		14	16	1	1196	1451	148
		14	22	1	1196	1451	149
		14	28	1	1196	1451	150
		14	102	1	1196	1451	151
		15	3	1130	1196	1451	152
		15	16	463	1196	1451	153
		15	22	378	1196	1451	154
		15	28	545	1196	1451	155
		15	102	798	1196	1451	156
25-MN- 55	BNL	EVAL-FEB74	H.TAKAHASHI		1197	1451	3
		12	3	11	1197	1451	199
		12	51	3	1197	1451	200
		12	52	3	1197	1451	201
		12	53	3	1197	1451	202
		12	54	3	1197	1451	203
		12	55	3	1197	1451	204
		12	102	6	1197	1451	205
		14	3	1	1197	1451	206
		14	51	1	1197	1451	207
		14	52	1	1197	1451	208
		14	53	1	1197	1451	209
		14	54	1	1197	1451	210
		14	55	1	1197	1451	211
		14	102	1	1197	1451	212
		15	3	235	1197	1451	213
		15	102	92	1197	1451	214
27-CO-59	BNL,ANL	EVAL-JAN74	T.KRIEGER(BNL), A.B.SMITH, D.SMITH		1199	1451	3
		12	102	5	1199	1451	194
		13	3	19	1199	1451	195
		14	3	1	1199	1451	196
		14	102	1	1199	1451	197
		15	3	494	1199	1451	198
		15	102	32	1199	1451	199
92-U- 233	BAPL	EVAL-JUL69	N.M.STEEN		1260	1451	3
92-U -235	LASL, AI	EVAL-MAR74	L.STEWART, H.ALTER, R.HUNTER		1261	1451	3
		12	4	253	1261	1451	337
		12	18	5	1261	1451	338
		12	102	5	1261	1451	339
		13	3	7	1261	1451	340
		14	3	1	1261	1451	341
		14	4	1	1261	1451	342
		14	18	1	1261	1451	343
		14	102	1	1261	1451	344
		15	3	136	1261	1451	345
		15	18	54	1261	1451	346
		15	102	58	1261	1451	347
92-U- 238	WARD	EVAL-SEP73	N.C. PAIK		1262	1451	3
		12	18	5	1262	1451	354
		12	102	5	1262	1451	355
		13	3	61	1262	1451	356

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	14	3	1	1262	1451	357
	14	18	1	1262	1451	358
	14	102	1	1262	1451	359
	15	3	576	1262	1451	360
	15	18	28	1262	1451	361
	15	102	48	1262	1451	362
93-NP-237 ANC,LASL	EVAL-JUN73	J.R.SMITH (ANC),	W.E.STEIN (LASL)	1263	1451	3
94-PU-239,GE-BRO,LAS	EVAL-MAR74	B.A.HUTCHINS,	R.HUNTER,L.STEWART	1264	1451	3
	12	4	65	1264	1451	287
	12	18	5	1264	1451	288
	12	102	5	1264	1451	289
	13	3	7	1264	1451	290
	14	3	1	1264	1451	291
	14	4	1	1264	1451	292
	14	18	1	1264	1451	293
	14	102	1	1264	1451	294
	15	3	136	1264	1451	295
	15	4	39	1264	1451	296
	15	18	58	1264	1451	297
	15	102	56	1264	1451	298
94-PU-240 ANL	EVAL-APR74	E.PENNINGTON	H.HUMMEL	1265	1451	3
	12	4	67	1265	1451	161
	12	18	5	1265	1451	162
	12	102	5	1265	1451	163
	13	3	7	1265	1451	164
	14	3	1	1265	1451	165
	14	4	1	1265	1451	166
	14	18	1	1265	1451	167
	14	102	1	1265	1451	168
	15	3	136	1265	1451	169
	15	18	58	1265	1451	170
	15	102	54	1265	1451	171
94-PU-241 ANL	EVAL-DEC73	H.HUMMEL,	E.PENNINGTON	1266	1451	3
1- H- 1 LASL	EVAL-AUG70	L.STEWART,	R.J.LABAUVE,P.G.YOUNG	1269	1451	3
	12	102	4	1269	1451	129
	14	102	1	1269	1451	130
2-HE- 4 LASL	EVAL-OCT73	NISLEY,	HALE, YOUNG	1270	1451	3
3-LI- 6 LASL	EVAL-APR74	G.M.HALE,	D.DODDER, P.YOUNG +	1271	1451	3
	12	52	4	1271	1451	219
	12	102	13	1271	1451	220
	14	52	1	1271	1451	221
	14	102	1	1271	1451	222
3-LI- 7 LASL	EVAL-OCT72	R.J.LABAUVE,	L.STEWART, M.BATTAT	1272	1451	3
	12	51	4	1272	1451	162
	12	102	13	1272	1451	163
	14	51	1	1272	1451	164
	14	102	1	1272	1451	165
5-B - 10 LASL	EVAL-NOV73	G.M.HALE,	R.A.NISLEY, P.G.YOUNG	1273	1451	3
	12	781	4	1273	1451	303
	13	4	368	1273	1451	304
	13	103	88	1273	1451	305
	14	4	1	1273	1451	306
	14	103	1	1273	1451	307
	14	781	1	1273	1451	308
6- C- 12 ORNL	EVAL-DEC73	F.G.PEREY AND	C.Y.FU	1274	1451	3
	12	102	13	1274	1451	163
	13	51	29	1274	1451	164
	14	51	185	1274	1451	165
	14	102	1	1274	1451	166
7- N- 14 LASL	EVAL-JUL73	P.YOUNG,	D.FOSTER,JR,G.HALE	1275	1451	3
	12	102	106	1275	1451	402
	13	4	412	1275	1451	403
	13	103	115	1275	1451	404

ENDF/B-4 GENERAL PURPOSE FILE

		13	104	57	1275	1451	405
		13	105	9	1275	1451	406
		13	107	411	1275	1451	407
		14	4	32	1275	1451	408
		14	102	52	1275	1451	409
		14	103	1	1275	1451	410
		14	104	13	1275	1451	411
		14	105	1	1275	1451	412
		14	107	1	1275	1451	413
8- O- 16	LASL				EVAL-AUG73	P. YOUNG, D. FOSTER, JR, G. HALE	1276 1451 3
		12	102	16			1276 1451 390
		13	4	463			1276 1451 391
		13	22	10			1276 1451 392
		13	103	64			1276 1451 393
		13	107	258			1276 1451 394
		14	4	56			1276 1451 395
		14	22	1			1276 1451 396
		14	102	1			1276 1451 397
		14	103	1			1276 1451 398
		14	107	1			1276 1451 399
9- F	ORNL				EVAL-JUL74	C. Y. FU, D. C. LARSON, F. G. PEREY	1277 1451 3
		13	3	10			1277 1451 236
		13	4	55			1277 1451 237
		13	102	126			1277 1451 238
		13	107	30			1277 1451 239
		14	3	1			1277 1451 240
		14	4	1			1277 1451 241
		14	102	1			1277 1451 242
		14	107	1			1277 1451 243
		15	3	487			1277 1451 244
		15	102	793			1277 1451 245
12-MG	GRT, SAI				EVAL-FEB74	M. K. DRAKE AND M. P. FRICKE	1280 1451 3
		12	102	12			1280 1451 402
		13	4	79			1280 1451 403
		13	16	7			1280 1451 404
		14	4	1			1280 1451 405
		14	16	1			1280 1451 406
		14	102	1			1280 1451 407
		15	4	238			1280 1451 408
		15	16	89			1280 1451 409
		15	102	48			1280 1451 410
48-CD	BNL				EVAL-MAY74	S. PEARLSTEIN (TRANS FROM U.K.)	1281 1451 3
48-CD-113	BNL				EVAL-MAY74	S. PEARLSTEIN (TRANS FROM U.K.)	1282 1451 3
79-AU-197	BNL				EVAL-APR74	S. F. MUGHABGHAB, A. PRINCE, M. D. GOLD-	1283 1451 3
40-ZIRC-2	BNW				EVAL-OCT73	B. R. LEONARD, JR	1284 1451 3
73-TA-181	LLL				EVAL-JAN72	HOWERTON, PERKINS, MACGREGOR	1285 1451 3
		12	102	5			1285 1451 321
		13	3	320			1285 1451 322
		14	3	1			1285 1451 323
		14	102	1			1285 1451 324
		15	3	681			1285 1451 325
		15	102	45			1285 1451 326
22-TI	LLL				EVAL-APR74	R. J. HOWERTON, R. HAIGHT, S. T. PERKINS	1286 1451 3
		12	102	4			1286 1451 57
		13	3	35			1286 1451 58
		14	3	1			1286 1451 59
		14	102	1			1286 1451 60
		15	3	358			1286 1451 61
		15	102	32			1286 1451 62
42-MO	LLL				EVAL-APR74	R. J. HOWERTON	1287 1451 3
		12	102	5			1287 1451 52
		13	3	21			1287 1451 53
		14	3	1			1287 1451 54

ENDF/B-4 GENERAL PURPOSE FILE

		14	102	1	1287	1451	55
		15	3	399	1287	1451	56
		15	102	36	1287	1451	57
82-PB	ORNL				1288	1451	3
					1288	1451	253
					1288	1451	254
					1288	1451	255
4-BE-	9 LLL			869	1289	1451	3
					1289	1451	319
					1289	1451	320
					1289	1451	321
					1289	1451	322
					1289	1451	323
					1289	1451	324
63-EU-151	BNL				1290	1451	3
					1290	1451	336
					1290	1451	337
					1290	1451	338
					1290	1451	339
					1290	1451	340
					1290	1451	341
					1290	1451	342
					1290	1451	343
					1290	1451	344
					1290	1451	345
					1290	1451	346
					1290	1451	347
					1290	1451	348
					1290	1451	349
					1290	1451	350
					1290	1451	351
					1290	1451	352
					1290	1451	353
					1290	1451	354
					1290	1451	355
					1290	1451	356
					1290	1451	357
					1290	1451	358
					1290	1451	359
63-EU-153	BNL				1291	1451	3
					1291	1451	329
					1291	1451	330
					1291	1451	331
					1291	1451	332
					1291	1451	333
					1291	1451	334
					1291	1451	335
					1291	1451	336
					1291	1451	337
					1291	1451	338
					1291	1451	339
					1291	1451	340
					1291	1451	341
					1291	1451	342
					1291	1451	343
					1291	1451	344
					1291	1451	345
					1291	1451	346
					1291	1451	347
					1291	1451	348
					1291	1451	349
					1291	1451	350
					1291	1451	351

ENDF/B-4 GENERAL PURPOSE FILE

	14	60	1	1291	1451	352
	14	61	1	1291	1451	353
	14	102	1	1291	1451	354
	15	3	235	1291	1451	355
	15	102	34	1291	1451	356
63-EU-152 BNL	EVAL-DEC73	H.TAKAHASHI		1292	1451	3
63-EU-154 BNL	EVAL-DEC73	H.TAKAHASHI		1293	1451	3
54-XE-135 BNW	EVAL-JUN67	B.R.LEONARD, JR. AND K.B.STEWART		1294	1451	3
29-CU SAI	EVAL-NOV73	M.K. DRAKE AND M.P. FRICKE		1295	1451	3
	12	102	6	1295	1451	348
	13	3	180	1295	1451	349
	14	3	1	1295	1451	350
	14	102	1	1295	1451	351
	15	3	203	1295	1451	352
	15	102	22	1295	1451	353
90-TH-232 B+W	EVAL-NOV66	WITTKOPF, ROY, AND LIVOLSI		1296	1451	3
91-PA-233 BAPL	EVAL-JAN70	P.C.YOUNG		1297	1451	3
				-1	0	0
					0	0

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0-NU-	1	LIVERMORE	EVAL-	R.J.HOWERTON			7800	1451	4
1-H -	1	LIVERMORE	EVAL-	R.J.HOWERTON			7801	1451	4
				12	102	4	07801	1451	18
				14	102	18	07801	1451	19
				15	102	18	07801	1451	20
1-H -	3	LIVERMORE	EVAL-	R.J.HOWERTON			7803	1451	4
2-HE-	3	LIVERMORE	EVAL-	R.J.HOWERTON			7804	1451	4
				12	102	4	07804	1451	20
				14	102	1	07804	1451	21
				15	102	12	07804	1451	22
2-HE-	4	LIVERMORE	EVAL-	R.J.HOWERTON			7805	1451	4
3-LI-	6	LIVERMORE	EVAL-	R.J.HOWERTON			7806	1451	4
				12	102	4	07806	1451	28
				14	102	1	07806	1451	29
				15	102	16	07806	1451	30
3-LI-	7	LIVERMORE	EVAL-	R.J.HOWERTON			7807	1451	4
				12	51	4	07807	1451	26
				12	102	4	07807	1451	27
				14	51	1	07807	1451	28
				14	102	1	07807	1451	29
				15	51	12	07807	1451	30
				15	102	16	07807	1451	31
4-BE-	7	LIVERMORE	EVAL-	R.J.HOWERTON			7808	1451	4
5-B -	10	LIVERMORE	EVAL-	R.J.HOWERTON			7810	1451	4
				12	51	4	07810	1451	36
				12	52	4	07810	1451	37
				12	53	4	07810	1451	38
				12	54	4	07810	1451	39
				12	91	4	07810	1451	40
				12	102	4	07810	1451	41
				12	107	7	07810	1451	42
				14	51	1	07810	1451	43
				14	52	1	07810	1451	44
				14	53	1	07810	1451	45
				14	54	1	07810	1451	46
				14	91	1	07810	1451	47
				14	102	1	07810	1451	48
				14	107	1	07810	1451	49
				15	51	12	07810	1451	50
				15	52	14	07810	1451	51
				15	53	20	07810	1451	52
				15	54	24	07810	1451	53
				15	91	14	07810	1451	54
				15	102	18	07810	1451	55
				15	107	12	07810	1451	56
5-B -	11	LIVERMORE	EVAL-	R.J.HOWERTON			7811	1451	4
				12	16	5	07811	1451	33
				12	51	4	07811	1451	34
				12	52	4	07811	1451	35
				12	53	4	07811	1451	36
				12	91	4	07811	1451	37
				12	102	4	07811	1451	38
				12	103	4	07811	1451	39
				12	107	4	07811	1451	40
				14	16	1	07811	1451	41
				14	51	1	07811	1451	42
				14	52	1	07811	1451	43
				14	53	1	07811	1451	44
				14	91	1	07811	1451	45
				14	102	1	07811	1451	46
				14	103	1	07811	1451	47
				14	107	1	07811	1451	48
				15	16	12	07811	1451	49

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	15	51	12	07811	1451	50
	15	52	12	07811	1451	51
	15	53	16	07811	1451	52
	15	91	14	07811	1451	53
	15	102	14	07811	1451	54
	15	103	12	07811	1451	55
	15	107	12	07811	1451	56
6-C - 12 LIVERMORE	EVAL-	R.J.HOWERTON		7812	1451	4
	12	102	4	07812	1451	37
	12	103	5	07812	1451	38
	12	104	5	07812	1451	39
	13	3	10	07812	1451	40
	14	3	1	07812	1451	41
	14	102	1	07812	1451	42
	14	103	1	07812	1451	43
	14	104	1	07812	1451	44
	15	102	16	07812	1451	45
	15	103	23	07812	1451	46
	15	104	15	07812	1451	47
7-N - 14 LIVERMORE	EVAL-	R.J.HOWERTON		7813	1451	4
	12	102	5	07813	1451	66
	13	3	966	07813	1451	67
	14	3	1	07813	1451	68
	14	102	1	07813	1451	69
	15	3	129	07813	1451	70
	15	102	83	07813	1451	71
8-O - 16 LIVERMORE	EVAL-	R.J.HOWERTON		7814	1451	4
	13	3	153	07814	1451	44
	14	3	1	07814	1451	45
	15	3	20	07814	1451	46
9-F - 19 LIVERMORE	EVAL-	R.J.HOWERTON		7815	1451	4
	12	102	4	07815	1451	74
	13	3	114	07815	1451	75
	14	3	1	07815	1451	76
	14	102	1	07815	1451	77
	15	3	133	07815	1451	78
	15	102	40	07815	1451	79
11-NA- 23 LIVERMORE	EVAL-	R.J.HOWERTON		7816	1451	4
	12	102	4	07816	1451	32
	13	3	93	07816	1451	33
	14	3	1	07816	1451	34
	14	102	1	07816	1451	35
	15	3	88	07816	1451	36
	15	102	44	07816	1451	37
12-MG- 0 LIVERMORE	EVAL-	R.J.HOWERTON		7817	1451	4
	12	102	4	07817	1451	32
	13	3	43	07817	1451	33
	14	3	1	07817	1451	34
	14	102	1	07817	1451	35
	15	3	87	07817	1451	36
	15	102	56	07817	1451	37
13-AL- 27 LIVERMORE	EVAL-	R.J.HOWERTON		7819	1451	4
	12	102	4	07819	1451	56
	13	3	78	07819	1451	57
	14	3	1	07819	1451	58
	14	102	1	07819	1451	59
	15	3	79	07819	1451	60
	15	102	52	07819	1451	61
14-SI- 0 LIVERMORE	EVAL-	R.J.HOWERTON		7820	1451	4
	12	102	4	07820	1451	33
	13	3	141	07820	1451	34
	14	3	1	07820	1451	35
	14	102	1	07820	1451	36

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			15	3	102	07820	1451	37
			15	102	52	07820	1451	38
15-P - 31	LIVERMORE	EVAL-		R.J.HOWERTON		7821	1451	4
			12	102	4	07821	1451	28
			13	3	25	07821	1451	29
			14	3	1	07821	1451	30
			14	102	1	07821	1451	31
			15	3	87	07821	1451	32
			15	102	54	07821	1451	33
16-S - 32	LIVERMORE	EVAL-		R.J.HOWERTON		7822	1451	4
			12	102	4	07822	1451	29
			13	3	46	07822	1451	30
			14	3	1	07822	1451	31
			14	102	1	07822	1451	32
			15	3	117	07822	1451	33
			15	102	36	07822	1451	34
17-CL- 0	LIVERMORE	EVAL-		R.J.HOWERTON		7823	1451	4
			12	102	4	07823	1451	30
			13	3	314	07823	1451	31
			14	3	1	07823	1451	32
			14	102	1	07823	1451	33
			15	3	125	07823	1451	34
			15	102	56	07823	1451	35
18-AR- 0	LIVERMORE	EVAL-		R.J.HOWERTON		7824	1451	4
			12	102	4	07824	1451	26
			13	3	36	07824	1451	27
			14	3	1	07824	1451	28
			14	102	1	07824	1451	29
			15	3	86	07824	1451	30
			15	102	78	07824	1451	31
19-K - 0	LIVERMORE	EVAL-		R.J.HOWERTON		7825	1451	4
			12	102	4	07825	1451	30
			13	3	89	07825	1451	31
			14	3	1	07825	1451	32
			14	102	1	07825	1451	33
			15	3	103	07825	1451	34
			15	102	52	07825	1451	35
20-CA- 0	LIVERMORE	EVAL-		R.J.HOWERTON		7826	1451	4
			12	102	4	07826	1451	30
			13	3	47	07826	1451	31
			14	3	1	07826	1451	32
			14	102	1	07826	1451	33
			15	3	66	07826	1451	34
			15	102	50	07826	1451	35
22-TI- 0	LIVERMORE	EVAL-		R.J.HOWERTON		7828	1451	4
			12	102	4	07828	1451	28
			13	3	57	07828	1451	29
			14	3	1	07828	1451	30
			14	102	1	07828	1451	31
			15	3	136	07828	1451	32
			15	102	52	07828	1451	33
23-V - 51	LIVERMORE	EVAL-		R.J.HOWERTON		7829	1451	4
			12	102	4	07829	1451	46
			13	3	104	07829	1451	47
			14	3	1	07829	1451	48
			14	102	1	07829	1451	49
			15	3	177	07829	1451	50
			15	102	50	07829	1451	51
24-CR- 0	LIVERMORE	EVAL-		R.J.HOWERTON		7830	1451	4
			12	102	4	07830	1451	44
			13	3	11	07830	1451	45
			14	3	1	07830	1451	46
			14	102	1	07830	1451	47

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			15	3	207	07830	1451	48
			15	102	56	07830	1451	49
25-MN-	55	LIVERMORE	EVAL-	R.J.HOWERTON		7831	1451	4
			12	102	4	07831	1451	28
			13	3	58	07831	1451	29
			14	3	1	07831	1451	30
			14	102	1	07831	1451	31
			15	3	116	07831	1451	32
			15	102	52	07831	1451	33
26-FE-	0	LIVERMORE	EVAL-	R.J.HOWERTON		7832	1451	4
			12	102	4	07832	1451	28
			13	3	42	07832	1451	29
			14	3	1	07832	1451	30
			14	102	1	07832	1451	31
			15	3	65	07832	1451	32
			15	102	52	07832	1451	33
27-CO-	59	LIVERMORE	EVAL-	R.J.HOWERTON		7835	1451	4
			12	102	4	07835	1451	46
			13	3	9	07835	1451	47
			14	3	1	07835	1451	48
			14	102	1	07835	1451	49
			15	3	221	07835	1451	50
			15	102	52	07835	1451	51
28-NI-	0	LIVERMORE	EVAL-	R.J.HOWERTON		7836	1451	4
			12	102	4	07836	1451	58
			13	3	117	07836	1451	59
			14	3	1	07836	1451	60
			14	102	1	07836	1451	61
			15	3	96	07836	1451	62
			15	102	58	07836	1451	63
28-NI-	58	LIVERMORE	EVAL-	R.J.HOWERTON		7837	1451	4
			12	102	4	07837	1451	29
			13	3	10	07837	1451	30
			14	3	1	07837	1451	31
			14	102	1	07837	1451	32
			15	3	83	07837	1451	33
			15	102	58	07837	1451	34
29-CU-	0	LIVERMORE	EVAL-	R.J.HOWERTON		7838	1451	4
			12	102	4	07838	1451	30
			13	3	11	07838	1451	31
			14	3	1	07838	1451	32
			14	102	1	07838	1451	33
			15	3	210	07838	1451	34
			15	102	54	07838	1451	35
31-GA-	0	LIVERMORE	EVAL-	R.J.HOWERTON		7840	1451	4
			12	102	4	07840	1451	26
			13	3	9	07840	1451	27
			14	3	1	07840	1451	28
			14	102	1	07840	1451	29
			15	3	221	07840	1451	30
			15	102	50	07840	1451	31
40-ZR-	0	LIVERMORE	EVAL-	R.J.HOWERTON		7841	1451	4
			12	102	4	07841	1451	43
			13	3	11	07841	1451	44
			14	3	1	07841	1451	45
			14	102	1	07841	1451	46
			15	3	225	07841	1451	47
			15	102	58	07841	1451	48
41-NB-	93	LIVERMORE	EVAL-	R.J.HOWERTON		7843	1451	4
			12	102	4	07843	1451	52
			13	3	13	07843	1451	53
			14	3	1	07843	1451	54
			14	102	1	07843	1451	55

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			15	3	244	07843	1451	56
			15	102	50	07843	1451	57
42-MO-	0	LIVERMORE	EVAL-	R.J.HOWERTON		7844	1451	4
			12	102	4	07844	1451	26
			13	3	10	07844	1451	27
			14	3	1	07844	1451	28
			14	102	1	07844	1451	29
			15	3	241	07844	1451	30
			15	102	60	07844	1451	31
47-AG-107		LIVERMORE	EVAL-	R.J.HOWERTON		7845	1451	4
			12	102	4	07845	1451	42
			13	3	12	07845	1451	43
			14	3	1	07845	1451	44
			14	102	1	07845	1451	45
			15	3	244	07845	1451	46
			15	102	50	07845	1451	47
47-AG-109		LIVERMORE	EVAL-	R.J.HOWERTON		7846	1451	4
			12	102	4	07846	1451	38
			13	3	11	07846	1451	39
			14	3	1	07846	1451	40
			14	102	1	07846	1451	41
			15	3	245	07846	1451	42
			15	102	48	07846	1451	43
48-CD-	0	LIVERMORE	EVAL-	R.J.HOWERTON		7847	1451	4
			12	102	4	07847	1451	26
			13	3	11	07847	1451	27
			14	3	1	07847	1451	28
			14	102	1	07847	1451	29
			15	3	239	07847	1451	30
			15	102	60	07847	1451	31
50-SN-	0	LIVERMORE	EVAL-	R.J.HOWERTON		7850	1451	4
			12	102	4	07850	1451	26
			13	3	11	07850	1451	27
			14	3	1	07850	1451	28
			14	102	1	07850	1451	29
			15	3	235	07850	1451	30
			15	102	62	07850	1451	31
56-BA-138		LIVERMORE	EVAL-	R.J.HOWERTON		7851	1451	4
			12	102	4	07851	1451	28
			13	3	12	07851	1451	29
			14	3	1	07851	1451	30
			14	102	1	07851	1451	31
			15	3	222	07851	1451	32
			15	102	36	07851	1451	33
63-EU-	0	LIVERMORE	EVAL-	R.J.HOWERTON		7852	1451	4
			12	102	4	07852	1451	26
			13	3	11	07852	1451	27
			14	3	1	07852	1451	28
			14	102	1	07852	1451	29
			15	3	257	07852	1451	30
			15	102	46	07852	1451	31
64-GD-	0	LIVERMORE	EVAL-	R.J.HOWERTON		7853	1451	4
			12	102	4	07853	1451	26
			13	3	12	07853	1451	27
			14	3	1	07853	1451	28
			14	102	1	07853	1451	29
			15	3	263	07853	1451	30
			15	102	52	07853	1451	31
67-HO-165		LIVERMORE	EVAL-	R.J.HOWERTON		7854	1451	4
			12	102	4	07854	1451	26
			13	3	10	07854	1451	27
			14	3	1	07854	1451	28
			14	102	1	07854	1451	29

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		15	3	260	07854	1451	30
		15	102	44	07854	1451	31
73-TA-181	LIVERMORE	EVAL-	R.J.HOWERTON		7855	1451	4
		12	102	5	07855	1451	45
		13	3	198	07855	1451	46
		14	3	1	07855	1451	47
		14	102	1	07855	1451	48
		15	3	591	07855	1451	49
		15	102	75	07855	1451	50
74-W - 0	LIVERMORE	EVAL-	R.J.HOWERTON		7856	1451	4
		12	102	4	07856	1451	26
		13	3	9	07856	1451	27
		14	3	1	07856	1451	28
		14	102	1	07856	1451	29
		15	3	260	07856	1451	30
		15	102	52	07856	1451	31
75-RE-185	LIVERMORE	EVAL-	R.J.HOWERTON		7858	1451	4
		12	102	4	07858	1451	26
		13	3	9	07858	1451	27
		14	3	1	07858	1451	28
		14	102	1	07858	1451	29
		15	3	240	07858	1451	30
		15	102	44	07858	1451	31
75-RE-187	LIVERMORE	EVAL-	R.J.HOWERTON		7859	1451	4
		12	102	4	07859	1451	26
		13	3	9	07859	1451	27
		14	3	1	07859	1451	28
		14	102	1	07859	1451	29
		15	3	249	07859	1451	30
		15	102	44	07859	1451	31
78-PT- 0	LIVERMORE	EVAL-	R.J.HOWERTON		7860	1451	4
		12	102	4	07860	1451	26
		13	3	10	07860	1451	27
		14	3	1	07860	1451	28
		14	102	1	07860	1451	29
		15	3	261	07860	1451	30
		15	102	54	07860	1451	31
79-AU-197	LIVERMORE	EVAL-	R.J.HOWERTON		7861	1451	4
		12	102	4	07861	1451	28
		13	3	12	07861	1451	29
		14	3	1	07861	1451	30
		14	102	1	07861	1451	31
		15	3	257	07861	1451	32
		15	102	48	07861	1451	33
82-PB- 0	LIVERMORE	EVAL-	R.J.HOWERTON		7862	1451	4
		12	102	4	07862	1451	26
		13	3	12	07862	1451	27
		14	3	1	07862	1451	28
		14	102	1	07862	1451	29
		15	3	202	07862	1451	30
		15	102	14	07862	1451	31
90-TH-231	LIVERMORE	EVAL-	R.J.HOWERTON		7863	1451	4
		12	18	4	07863	1451	33
		12	102	4	07863	1451	34
		13	3	14	07863	1451	35
		14	3	1	07863	1451	36
		14	18	1	07863	1451	37
		14	102	1	07863	1451	38
		15	3	339	07863	1451	39
		15	18	52	07863	1451	40
		15	102	70	07863	1451	41
90-TH-232	LIVERMORE	EVAL-	R.J.HOWERTON		7864	1451	4
		12	18	4	07864	1451	33

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	12	102	4	07864	1451	34
	13	3	13	07864	1451	35
	14	3	1	07864	1451	36
	14	18	1	07864	1451	37
	14	102	1	07864	1451	38
	15	3	347	07864	1451	39
	15	18	52	07864	1451	40
	15	102	70	07864	1451	41
90-TH-233 LIVERMORE	EVAL-	R.J.HOWERTON		7865	1451	4
	12	18	4	07865	1451	33
	12	102	4	07865	1451	34
	13	3	14	07865	1451	35
	14	3	1	07865	1451	36
	14	18	1	07865	1451	37
	14	102	1	07865	1451	38
	15	3	325	07865	1451	39
	15	18	52	07865	1451	40
	15	102	70	07865	1451	41
92-U -233 LIVERMORE	EVAL-	R.J.HOWERTON		7866	1451	4
	12	18	4	07866	1451	31
	12	102	4	07866	1451	32
	13	3	13	07866	1451	33
	14	3	1	07866	1451	34
	14	18	1	07866	1451	35
	14	102	1	07866	1451	36
	15	3	327	07866	1451	37
	15	18	52	07866	1451	38
	15	102	70	07866	1451	39
92-U -234 LIVERMORE	EVAL-	R.J.HOWERTON		7867	1451	4
	12	18	4	07867	1451	31
	12	102	4	07867	1451	32
	13	3	14	07867	1451	33
	14	3	1	07867	1451	34
	14	18	1	07867	1451	35
	14	102	1	07867	1451	36
	15	3	335	07867	1451	37
	15	18	52	07867	1451	38
	15	102	70	07867	1451	39
92-U -235 LIVERMORE	EVAL-	R.J.HOWERTON		7868	1451	4
	12	18	4	07868	1451	33
	12	102	4	07868	1451	34
	13	3	14	07868	1451	35
	14	3	1	07868	1451	36
	14	18	1	07868	1451	37
	14	102	1	07868	1451	38
	15	3	526	07868	1451	39
	15	18	52	07868	1451	40
	15	102	70	07868	1451	41
92-U -236 LIVERMORE	EVAL-	R.J.HOWERTON		7869	1451	4
	12	18	4	07869	1451	31
	12	102	4	07869	1451	32
	13	3	14	07869	1451	33
	14	3	1	07869	1451	34
	14	18	1	07869	1451	35
	14	102	1	07869	1451	36
	15	3	359	07869	1451	37
	15	18	52	07869	1451	38
	15	102	70	07869	1451	39
92-U -237 LIVERMORE	EVAL-	R.J.HOWERTON		7870	1451	4
	12	18	4	07870	1451	31
	12	102	4	07870	1451	32
	13	3	15	07870	1451	33
	14	3	1	07870	1451	34

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	14	18	1	07870	1451	35
	14	102	1	07870	1451	36
	15	3	352	07870	1451	37
	15	18	52	07870	1451	38
	15	102	70	07870	1451	39
92-U -238 LIVERMORE	EVAL-	R.J.HOWERTON		7871	1451	4
	12	18	4	07871	1451	77
	12	102	4	07871	1451	78
	13	3	43	07871	1451	79
	14	3	1	07871	1451	80
	14	18	1	07871	1451	81
	14	102	1	07871	1451	82
	15	3	209	07871	1451	83
	15	18	52	07871	1451	84
	15	102	70	07871	1451	85
92-U -239 LIVERMORE	EVAL-	R.J.HOWERTON		7872	1451	4
	12	18	4	07872	1451	33
	12	102	4	07872	1451	34
	13	3	13	07872	1451	35
	14	3	1	07872	1451	36
	14	18	1	07872	1451	37
	14	102	1	07872	1451	38
	15	3	347	07872	1451	39
	15	18	52	07872	1451	40
	15	102	70	07872	1451	41
92-U -240 LIVERMORE	EVAL-	R.J.HOWERTON		7873	1451	4
	12	18	4	07873	1451	33
	12	102	4	07873	1451	34
	13	3	13	07873	1451	35
	14	3	1	07873	1451	36
	14	18	1	07873	1451	37
	14	102	1	07873	1451	38
	15	3	362	07873	1451	39
	15	18	52	07873	1451	40
	15	102	70	07873	1451	41
93-NP-237 LIVERMORE	EVAL-	R.J.HOWERTON		7874	1451	4
	12	18	4	07874	1451	31
	12	102	4	07874	1451	32
	13	3	13	07874	1451	33
	14	3	1	07874	1451	34
	14	18	1	07874	1451	35
	14	102	1	07874	1451	36
	15	3	359	07874	1451	37
	15	18	52	07874	1451	38
	15	102	70	07874	1451	39
94-PU-238 LIVERMORE	EVAL-	R.J.HOWERTON		7875	1451	4
	12	18	4	07875	1451	31
	12	102	4	07875	1451	32
	13	3	14	07875	1451	33
	14	3	1	07875	1451	34
	14	18	1	07875	1451	35
	14	102	1	07875	1451	36
	15	3	557	07875	1451	37
	15	18	52	07875	1451	38
	15	102	70	07875	1451	39
94-PU-239 LIVERMORE	EVAL-	R.J.HOWERTON		7876	1451	4
	12	18	4	07876	1451	46
	12	102	4	07876	1451	47
	13	3	44	07876	1451	48
	14	3	1	07876	1451	49
	14	18	1	07876	1451	50
	14	102	1	07876	1451	51
	15	3	490	07876	1451	52

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	15	18	52	07876	1451	53
	15	102	70	07876	1451	54
94-PU-240 LIVERMORE EVAL-		R.J.HOWERTON		7877	1451	4
	12	18	4	07877	1451	41
	12	102	4	07877	1451	42
	13	3	13	07877	1451	43
	14	3	1	07877	1451	44
	14	18	1	07877	1451	45
	14	102	1	07877	1451	46
	15	3	361	07877	1451	47
	15	18	52	07877	1451	48
	15	102	70	07877	1451	49
94-PU-241 LIVERMORE EVAL-		R.J.HOWERTON		7878	1451	4
	12	18	4	07878	1451	33
	12	102	4	07878	1451	34
	13	3	13	07878	1451	35
	14	3	1	07878	1451	36
	14	18	1	07878	1451	37
	14	102	1	07878	1451	38
	15	3	359	07878	1451	39
	15	18	52	07878	1451	40
	15	102	70	07878	1451	41
94-PU-242 LIVERMORE EVAL-		R.J.HOWERTON		7880	1451	4
	12	18	4	07880	1451	41
	12	102	4	07880	1451	42
	13	3	14	07880	1451	43
	14	3	1	07880	1451	44
	14	18	1	07880	1451	45
	14	102	1	07880	1451	46
	15	3	345	07880	1451	47
	15	18	52	07880	1451	48
	15	102	70	07880	1451	49
94-PU-243 LIVERMORE EVAL-		R.J.HOWERTON		7881	1451	4
	12	18	4	07881	1451	33
	12	102	4	07881	1451	34
	13	3	15	07881	1451	35
	14	3	1	07881	1451	36
	14	18	1	07881	1451	37
	14	102	1	07881	1451	38
	15	3	347	07881	1451	39
	15	18	52	07881	1451	40
	15	102	70	07881	1451	41
95-AM-241 LIVERMORE EVAL-		R.J.HOWERTON		7882	1451	4
	12	18	4	07882	1451	32
	12	102	4	07882	1451	33
	12	102	4	07882	1451	34
	13	3	15	07882	1451	35
	14	3	1	07882	1451	36
	14	18	1	07882	1451	37
	14	102	1	07882	1451	38
	14	102	1	07882	1451	39
	15	3	363	07882	1451	40
	15	18	52	07882	1451	41
	15	102	70	07882	1451	42
	15	102	70	07882	1451	43
95-AM-242 LIVERMORE EVAL-		R.J.HOWERTON		7883	1451	4
	12	18	4	07883	1451	33
	12	102	4	07883	1451	34
	13	3	14	07883	1451	35
	14	3	1	07883	1451	36
	14	18	1	07883	1451	37
	14	102	1	07883	1451	38
	15	3	341	07883	1451	39

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	15	18	52	07883	1451	40
	15	102	70	07883	1451	41
95-AM-243 LIVERMORE EVAL-	R.J.HOWERTON			7884	1451	4
	12	18	4	07884	1451	33
	12	102	4	07884	1451	34
	13	3	17	07884	1451	35
	14	3	1	07884	1451	36
	14	18	1	07884	1451	37
	14	102	1	07884	1451	38
	15	3	340	07884	1451	39
	15	18	52	07884	1451	40
	15	102	70	07884	1451	41
96-CM-242 LIVERMORE EVAL-	R.J.HOWERTON			7885	1451	4
	12	18	4	07885	1451	31
	12	102	4	07885	1451	32
	13	3	14	07885	1451	33
	14	3	1	07885	1451	34
	14	18	1	07885	1451	35
	14	102	1	07885	1451	36
	15	3	340	07885	1451	37
	15	18	52	07885	1451	38
	15	102	70	07885	1451	39
96-CM-243 LIVERMORE EVAL-	R.J.HOWERTON			7886	1451	4
	12	18	4	07886	1451	33
	12	102	4	07886	1451	34
	13	3	14	07886	1451	35
	14	3	1	07886	1451	36
	14	18	1	07886	1451	37
	14	102	1	07886	1451	38
	15	3	343	07886	1451	39
	15	18	52	07886	1451	40
	15	102	70	07886	1451	41
96-CM-244 LIVERMORE EVAL-	R.J.HOWERTON			7887	1451	4
	12	18	4	07887	1451	33
	12	102	4	07887	1451	34
	13	3	14	07887	1451	35
	14	3	1	07887	1451	36
	14	18	1	07887	1451	37
	14	102	1	07887	1451	38
	15	3	342	07887	1451	39
	15	18	52	07887	1451	40
	15	102	70	07887	1451	41
96-CM-245 LIVERMORE EVAL-	R.J.HOWERTON			7888	1451	4
	12	18	4	07888	1451	33
	12	102	4	07888	1451	34
	13	3	14	07888	1451	35
	14	3	1	07888	1451	36
	14	18	1	07888	1451	37
	14	102	1	07888	1451	38
	15	3	339	07888	1451	39
	15	18	52	07888	1451	40
	15	102	70	07888	1451	41
96-CM-246 LIVERMORE EVAL-	R.J.HOWERTON			7889	1451	4
	12	18	4	07889	1451	33
	12	102	4	07889	1451	34
	13	3	16	07889	1451	35
	14	3	1	07889	1451	36
	14	18	1	07889	1451	37
	14	102	1	07889	1451	38
	15	3	354	07889	1451	39
	15	18	52	07889	1451	40
	15	102	70	07889	1451	41
96-CM-247 LIVERMORE EVAL-	R.J.HOWERTON			7890	1451	4

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	12	18	4	07890	1451	33
	12	102	4	07890	1451	34
	13	3	15	07890	1451	35
	14	3	1	07890	1451	36
	14	18	1	07890	1451	37
	14	102	1	07890	1451	38
	15	3	339	07890	1451	39
	15	18	52	07890	1451	40
	15	102	70	07890	1451	41
96-CM-248 LIVERMORE	EVAL-	R.J.HOWERTON		7891	1451	4
	12	18	4	07891	1451	33
	12	102	4	07891	1451	34
	13	3	17	07891	1451	35
	14	3	1	07891	1451	36
	14	18	1	07891	1451	37
	14	102	1	07891	1451	38
	15	3	342	07891	1451	39
	15	18	52	07891	1451	40
	15	102	70	07891	1451	41
97-BK-249 LIVERMORE	EVAL-	R.J.HOWERTON		7892	1451	4
	12	18	4	07892	1451	33
	12	102	4	07892	1451	34
	13	3	16	07892	1451	35
	14	3	1	07892	1451	36
	14	18	1	07892	1451	37
	14	102	1	07892	1451	38
	15	3	341	07892	1451	39
	15	18	52	07892	1451	40
	15	102	70	07892	1451	41
98-CF-249 LIVERMORE	EVAL-	R.J.HOWERTON		7893	1451	4
	12	18	4	07893	1451	33
	12	102	4	07893	1451	34
	13	3	15	07893	1451	35
	14	3	1	07893	1451	36
	14	18	1	07893	1451	37
	14	102	1	07893	1451	38
	15	3	344	07893	1451	39
	15	18	52	07893	1451	40
	15	102	70	07893	1451	41
98-CF-250 LIVERMORE	EVAL-	R.J.HOWERTON		7894	1451	4
	12	18	4	07894	1451	33
	12	102	4	07894	1451	34
	13	3	18	07894	1451	35
	14	3	1	07894	1451	36
	14	18	1	07894	1451	37
	14	102	1	07894	1451	38
	15	3	353	07894	1451	39
	15	18	52	07894	1451	40
	15	102	70	07894	1451	41
98-CF-251 LIVERMORE	EVAL-	R.J.HOWERTON		7895	1451	4
	12	18	4	07895	1451	33
	12	102	4	07895	1451	34
	13	3	14	07895	1451	35
	14	3	1	07895	1451	36
	14	18	1	07895	1451	37
	14	102	1	07895	1451	38
	15	3	348	07895	1451	39
	15	18	52	07895	1451	40
	15	102	70	07895	1451	41
98-CF-252 LIVERMORE	EVAL-	R.J.HOWERTON		7896	1451	4
	12	18	4	07896	1451	33
	12	102	4	07896	1451	34
	13	3	14	07896	1451	35

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	14	3	1	07896	1451	36
	14	18	1	07896	1451	37
	14	102	1	07896	1451	38
	15	3	262	07896	1451	39
	15	18	52	07896	1451	40
	15	102	70	07896	1451	41
FISS.PROD LIVERMORE	EVAL-	R.J.HOWERTON		7897	1451	4
	12	102	4	07897	1451	26
	13	3	15	07897	1451	27
	14	3	1	07897	1451	28
	14	102	1	07897	1451	29
	15	3	564	07897	1451	30
	15	102	52	07897	1451	31
33-AS- 74 LIVERMORE	EVAL-	R.J.HOWERTON		8301	1451	4
	12	102	4	08301	1451	27
	13	3	12	08301	1451	28
	14	3	1	08301	1451	29
	14	102	1	08301	1451	30
	15	3	393	08301	1451	31
	15	102	52	08301	1451	32
	12	102	4	08301	1451	51
	13	3	12	08301	1451	52
	14	3	1	08301	1451	53
	14	102	1	08301	1451	54
	15	3	392	08301	1451	55
	15	102	52	08301	1451	56
33-AS- 75 LIVERMORE	EVAL-	R.J.HOWERTON		8302	1451	4
39-Y - 88 LIVERMORE	EVAL-	R.J.HOWERTON		8303	1451	4
	12	102	4	08303	1451	25
	13	3	18	08303	1451	26
	14	3	1	08303	1451	27
	14	102	1	08303	1451	28
	15	3	752	08303	1451	29
	15	102	48	08303	1451	30
39-Y - 89 LIVERMORE	EVAL-	R.J.HOWERTON		8304	1451	4
	12	102	4	08304	1451	38
	13	3	12	08304	1451	39
	14	3	1	08304	1451	40
	14	102	1	08304	1451	41
	15	3	394	08304	1451	42
	15	102	48	08304	1451	43
72-HF- 0 LIVERMORE	EVAL-	R.J.HOWERTON		8305	1451	4
	12	102	4	08305	1451	33
	13	3	14	08305	1451	34
	14	3	1	08305	1451	35
	14	102	1	08305	1451	36
	15	3	574	08305	1451	37
	15	102	48	08305	1451	38
83-BI-209 LIVERMORE	EVAL-	R.J.HOWERTON		8306	1451	4
	12	102	4	08306	1451	41
	13	3	14	08306	1451	42
	14	3	1	08306	1451	43
	14	102	1	08306	1451	44
	15	3	537	08306	1451	45
	15	102	16	08306	1451	46
93-NP-235 LIVERMORE	EVAL-	R.J.HOWERTON		8307	1451	4
	12	18	4	08307	1451	30
	12	102	4	08307	1451	31
	13	3	12	08307	1451	32
	14	3	1	08307	1451	33
	14	18	1	08307	1451	34
	14	102	1	08307	1451	35
	15	3	359	08307	1451	36

ENDL-84/V LIBRARY

	15	18	52	08307	1451	37
	15	102	70	08307	1451	38
93-NP-236 LIVERMORE EVAL-		R.J.HOWERTON		8308	1451	4
	12	18	4	08308	1451	30
	12	102	4	08308	1451	31
	13	3	12	08308	1451	32
	14	3	1	08308	1451	33
	14	18	1	08308	1451	34
	14	102	1	08308	1451	35
	15	3	359	08308	1451	36
	15	18	52	08308	1451	37
	15	102	70	08308	1451	38
93-NP-238 LIVERMORE EVAL-		R.J.HOWERTON		8309	1451	4
	12	18	4	08309	1451	30
	12	102	4	08309	1451	31
	13	3	14	08309	1451	32
	14	3	1	08309	1451	33
	14	18	1	08309	1451	34
	14	102	1	08309	1451	35
	15	3	359	08309	1451	36
	15	18	52	08309	1451	37
	15	102	70	08309	1451	38
				-1	0	0

ENDF/B-5 FISSION PRODUCT FILE

41-NB- 93	ANL, LLL	EVAL-MAY74	R.HOWERTON(LLL) AND A.SMITH	1189	1451	4
		12	102	5	01189	1451 129
		13	3	10	01189	1451 130
		14	3	1	01189	1451 131
		14	102	1	01189	1451 132
		15	3	412	01189	1451 133
		15	102	22	01189	1451 134
63-EU-152	BNL	EVAL-DEC73	H.TAKAHASHI	1292	1451	4
63-EU-154	BNL	EVAL-DEC73	H.TAKAHASHI	1293	1451	4
54-XE-135	BNW	EVAL-JUN67	B.R.LEONARD, JR. AND K.B.STEWART	1294	1451	4
43-TC- 99	HEDL, BAW	EVAL-NOV78	SCHENTER, LIVOLSI, SCHMITTROTH, ETAL	1308	1451	4
45-RH-103	HEDL, BAW	EVAL-NOV78	SCHENTER, LIVOLSI, SCHMITTROTH, ETAL	1310	1451	4
48-CD-113	BNL, HEDL	EVAL-NOV78	PEARLSTEIN, MANN, SCHENTER	1318	1451	4
62-SM-149	HEDL, BNW	EVAL-NOV78	SCHENTER, LEONARD, STEWART, ET AL.	1319	1451	4
36-KR- 78	BNL	EVAL-APR76	A.PRINCE	1330	1451	4
36-KR- 80	BNL	EVAL-APR76	A.PRINCE	1331	1451	4
36-KR- 82	BNL	EVAL-APR76	A.PRINCE	1332	1451	4
36-KR- 83	BNL	EVAL-APR76	A.PRINCE	1333	1451	4
36-KR- 84	BNL	EVAL-APR76	A.PRINCE	1334	1451	4
54-XE-124	BNL	EVAL-MAR76	M.R.BHAT AND S.F.MUGHABGHAB	1335	1451	4
36-KR- 86	BNL	EVAL-JUL72	A.PRINCE	1336	1451	4
54-XE-126	BNL	EVAL-MAR76	M.R.BHAT AND S.F.MUGHABGHAB	1339	1451	4
54-XE-128	BNL	EVAL-MAR76	M.R.BHAT AND S.F.MUGHABGHAB	1348	1451	4
54-XE-129	BNL	EVAL-MAR76	M.R.BHAT AND S.F.MUGHABGHAB	1349	1451	4
54-XE-130	BNL	EVAL-MAR76	M.R.BHAT AND S.F.MUGHABGHAB	1350	1451	4
54-XE-131	BNL	EVAL-MAR76	M.R.BHAT AND S.F.MUGHABGHAB	1351	1451	4
54-XE-132	BNL	EVAL-MAR76	M.R.BHAT AND S.F.MUGHABGHAB	1352	1451	4
54-XE-134	BNL	EVAL-MAR76	M.R.BHAT AND S.F.MUGHABGHAB	1354	1451	4
55-CS-133	HEDL, BNL	EVAL-NOV78	SCHENTER, BHAT, PRINCE, JOHNSON, ETAL	1355	1451	4
54-XE-136	BNL	EVAL-MAR76	M.R.BHAT AND S.F.MUGHABGHAB	1356	1451	4
63-EU-151	BNL	EVAL-DEC77	S.F. MUGHABGHAB	1357	1451	4
		12	51	3	01357	1451 283
		12	52	3	01357	1451 284
		12	53	3	01357	1451 285
		12	54	3	01357	1451 286
		12	55	3	01357	1451 287
		12	56	3	01357	1451 288
		12	57	3	01357	1451 289
		12	58	3	01357	1451 290
		12	59	3	01357	1451 291
		12	102	5	01357	1451 292
		13	3	11	01357	1451 293
		14	3	1	01357	1451 294
		14	51	1	01357	1451 295
		14	52	1	01357	1451 296
		14	53	1	01357	1451 297
		14	54	1	01357	1451 298
		14	55	1	01357	1451 299
		14	56	1	01357	1451 300
		14	57	1	01357	1451 301
		14	58	1	01357	1451 302
		14	59	1	01357	1451 303
		14	102	1	01357	1451 304
		15	3	235	01357	1451 305
		15	102	34	01357	1451 306
63-EU-153	BNL	EVAL-FEB78	S.MUGHABGHAB	1359	1451	4
		12	3	11	01359	1451 296
		12	51	3	01359	1451 297
		12	52	3	01359	1451 298
		12	53	3	01359	1451 299
		12	54	3	01359	1451 300
		12	55	4	01359	1451 301
		12	56	3	01359	1451 302

ENDF/B-5 FISSION PRODUCT FILE

12	57	3	01359	1451	303	
12	58	4	01359	1451	304	
12	59	3	01359	1451	305	
12	60	3	01359	1451	306	
12	61	3	01359	1451	307	
12	102	5	01359	1451	308	
14	3	1	01359	1451	309	
14	51	1	01359	1451	310	
14	52	1	01359	1451	311	
14	53	1	01359	1451	312	
14	54	1	01359	1451	313	
14	55	1	01359	1451	314	
14	56	1	01359	1451	315	
14	57	1	01359	1451	316	
14	58	1	01359	1451	317	
14	59	1	01359	1451	318	
14	60	1	01359	1451	319	
14	61	1	01359	1451	320	
14	102	1	01359	1451	321	
15	3	235	01359	1451	322	
15	102	34	01359	1451	323	
47-AG-107	BNL,HEDL	EVAL-JUN63	A.PRINCE,R.E.SCHENTER	1407	1451	4
47-AG-109	BNL,HEDL	EVAL-JUN63	A.PRINCE,R.E.SCHENTER	1409	1451	4
				-1	0	0

ENDF/B-5 STANDARDS FILE

2-HE- 30LASL	EVAL-JUN68 LEONA STEWART (LASL)	1146	1451	4
1-H - 10LASL	EVAL-AUG70 L.STEWART, R.J.LABAUVE, P.G.YOUNG	1301	1451	4
	12 102 4	01301	1451	109
	14 102 1	01301	1451	110
3-LI-0060LASL	EVAL-SEP77 G.HALE, L.STEWART, P.G.YOUNG	1303	1451	4
	12 57 4	11303	1451	308
	12 102 13	01303	1451	309
	14 57 1	11303	1451	310
	14 102 1	01303	1451	311
5-B - 100LASL	EVAL-DEC76 G.HALE, L.STEWART, P.YOUNG	1305	1451	4
	12 102 40	11305	1451	378
	12 781 4	01305	1451	379
	13 4 368	11305	1451	380
	13 103 88	11305	1451	381
	14 4 1	01305	1451	382
	14 102 1	11305	1451	383
	14 103 1	01305	1451	384
	14 781 1	01305	1451	385
6-C - ORNL	EVAL-DEC73 C.Y.FU AND F.G.PEREY	1306	1451	4
	12 102 13	11306	1451	239
	13 51 43	11306	1451	240
	14 51 143	11306	1451	241
	14 102 1	01306	1451	242
79-AU-197 BNL	EVAL-FEB77 S.F.MUGHABGHAB	1379	1451	4
92-U -235 BNL	EVAL-APR77 M.R.BHAT	1395	1451	4
	12 4 253	01395	1451	317
	12 18 5	01395	1451	318
	12 102 5	01395	1451	319
	13 3 8	11395	1451	320
	14 3 1	01395	1451	321
	14 4 1	01395	1451	322
	14 18 1	01395	1451	323
	14 102 1	01395	1451	324
	15 3 127	11395	1451	325
	15 18 54	01395	1451	326
	15 102 58	01395	1451	327
13-AL- 270LASL	EVAL-DEC73 P.G. YOUNG, D.G. FOSTER, JR.	6313	1451	4
92-U -238 ANL+	EVAL-JUN77 E.PENNINGTON, A.SMITH, W.POENITZ	6398	1451	4
26-FE- 56 ORNL	EVAL-JUL78 C.Y.FU	6431	1451	4
		-1	0	0

ENDF/B-5 ACTINIDES FILE

93-NP-237	HEDL,SRL,+	EVAL-APR78	MANN,BENJAMIN,SMITH,STEIN,REICH,+	1337	1451	4
94-PU-238	HEDL,AI,+	EVAL-APR78	MANN,SCHENTER,ALTER,DUNFORD,+	1338	1451	4
94-PU-242	HEDL,SRL,+	EVAL-OCT78	MANN,BENJAMIN,MADLAND,HOWERTON,+	1342	1451	4
		12	18	5	11342	1451 235
		12	102	5	11342	1451 236
		13	3	9	11342	1451 237
		14	3	1	11342	1451 238
		14	18	1	11342	1451 239
		14	102	1	11342	1451 240
		15	3	414	11342	1451 241
		15	18	87	11342	1451 242
		15	102	33	11342	1451 243
96-CM-243	HEDLSRLLLL	EVAL-APR78	MANN,BENJAMIN,HOWERTON,ET AL.	1343	1451	4
		12	18	5	11343	1451 161
		12	102	5	11343	1451 162
		13	3	9	11343	1451 163
		14	3	1	11343	1451 164
		14	18	1	11343	1451 165
		14	102	1	11343	1451 166
		15	3	410	11343	1451 167
		15	18	87	11343	1451 168
		15	102	33	11343	1451 169
96-CM-244	HEDLSRLLLL	EVAL-APR78	MANN,BENJAMIN,HOWERTON,ET AL.	1344	1451	4
		12	18	5	11344	1451 180
		12	102	5	11344	1451 181
		13	3	9	11344	1451 182
		14	3	1	11344	1451 183
		14	18	1	11344	1451 184
		14	102	1	11344	1451 185
		15	3	412	11344	1451 186
		15	18	87	11344	1451 187
		15	102	33	11344	1451 188
96-CM-245	SRL,LLL	EVAL-JAN79	BENJAMIN AND HOWERTON	1345	1451	4
		12	18	4	11345	1451 110
		12	102	4	11345	1451 111
		13	3	10	11345	1451 112
		14	3	1	11345	1451 113
		14	18	1	11345	1451 114
		14	102	1	11345	1451 115
		15	3	339	11345	1451 116
		15	18	32	11345	1451 117
		15	102	70	11345	1451 118
96-CM-246	BNL,SRL,LLLEVAL-	JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)	1346	1451	4
		12	18	4	11346	1451 165
		12	102	4	11346	1451 166
		13	3	10	11346	1451 167
		14	3	1	11346	1451 168
		14	18	1	11346	1451 169
		14	102	1	11346	1451 170
		15	3	354	11346	1451 171
		15	18	32	11346	1451 172
		15	102	70	11346	1451 173
95-AM-241	HEDL,ORNL	EVAL-APR78	MANN,SCHENTER, AND WESTON	1361	1451	4
		12	18	5	11361	1451 183
		12	102	5	11361	1451 184
		13	3	7	11361	1451 185
		14	3	1	11361	1451 186
		14	18	1	11361	1451 187
		14	102	1	11361	1451 188
		15	3	281	11361	1451 189
		15	18	87	11361	1451 190
		15	102	33	11361	1451 191
95-AM-243	HEDLSRLLLL	EVAL-APR78	MANN,BENJAMIN,HOWERTON,ET AL.	1363	1451	4

ENDF/B-5 ACTINIDES FILE

	12	18	5	11363	1451	174
	12	102	5	11363	1451	175
	13	3	9	11363	1451	176
	14	3	1	11363	1451	177
	14	18	1	11363	1451	178
	14	102	1	11363	1451	179
	15	3	412	11363	1451	180
	15	18	87	11363	1451	181
	15	102	33	11363	1451	182
95-AM-242MHEDLSRLLLL	EVAL-APR78	MANN, BENJAMIN, HOWERTON, ET AL.		1369	1451	4
	12	18	4	11369	1451	148
	12	102	5	11369	1451	149
	13	3	22	11369	1451	150
	14	3	1	11369	1451	151
	14	18	1	11369	1451	152
	14	102	1	11369	1451	153
	15	3	199	11369	1451	154
	15	18	32	11369	1451	155
	15	102	33	11369	1451	156
91-PA-233 HEDL, INEL	EVAL-MAY78	MANN, SCHENTER, REICH		1391	1451	4
92-U -234 BNL, HEDL, +	EVAL-JUL78	DIVADEENAM, MANN, DRAKE, REICH, ET. AL		1394	1451	4
92-U -235 BNL	EVAL-APR77	M. R. BHAT		1395	1451	4
	12	4	253	01395	1451	317
	12	18	5	01395	1451	318
	12	102	5	01395	1451	319
	13	3	8	11395	1451	320
	14	3	1	01395	1451	321
	14	4	1	01395	1451	322
	14	18	1	01395	1451	323
	14	102	1	01395	1451	324
	15	3	127	11395	1451	325
	15	18	54	01395	1451	326
	15	102	58	01395	1451	327
92-U -236 BNL, HEDL, +	EVAL-JUL78	DIVADEENAM, MANN, MCCROSSON, REICH, +		1396	1451	4
90-TH-232 BNL	EVAL-DEC77	BHAT, SMITH, LEONARD, DESAUSSURE ET AL		6390	1451	4
92-U -238 ANL+	EVAL-JUN77	E. PENNINGTON, A. SMITH, W. POENITZ		6398	1451	4
94-PU-239 OGE-FBRD	EVAL-OCT76	E. KUJAWSKI, L. STEWART (LASL)		6399	1451	4
90-TH-228 INEL	EVAL-AUG78	REICH		8026	1451	4
90-TH-230 HEDL	EVAL-NOV77	MANN		8030	1451	4
90-TH-231 INEL	EVAL-AUG78	REICH		8031	1451	4
90-TH-233 INEL	EVAL-AUG78	REICH		8033	1451	4
81-TL-208 INEL	EVAL-AUG78	REICH		8108	1451	4
91-PA-231 HEDL	EVAL-NOV77	MANN		8131	1451	4
91-PA-232 INEL	EVAL-AUG78	REICH		8132	1451	4
82-PB-212 INEL	EVAL-AUG78	REICH		8212	1451	4
92-U -232 HEDL	EVAL-NOV77	MANN		8232	1451	4
92-U-237 BNL, SRL, LLE	EVAL-JUL76	KINSEY-ASSEMBLER (SEE COMMENTS)		8237	1451	4
	12	18	4	18237	1451	110
	12	102	4	18237	1451	111
	13	3	10	18237	1451	112
	14	3	1	18237	1451	113
	14	18	1	18237	1451	114
	14	102	1	18237	1451	115
	15	3	352	18237	1451	116
	15	18	32	18237	1451	117
	15	102	70	18237	1451	118
92-U -239 INEL	EVAL-AUG78	REICH		8239	1451	4
83-BI-212 INEL	EVAL-NOV78	REICH		8312	1451	4
93-NP-236 INEL	EVAL-AUG78	REICH		8336	1451	4
93-NP-238 SRL	EVAL-AUG75	BENJAMIN AND MCCROSSON		8338	1451	4
93-NP-239 INEL	EVAL-AUG78	REICH		8339	1451	4
93-NP-236M INEL	EVAL-AUG78	REICH		8346	1451	4
84-PO-216 INEL	EVAL-AUG78	REICH		8416	1451	4

ENDF/B-5 ACTINIDES FILE

94-PU-236	HEDL, SRL	EVAL-APR78	MANN, SCHENTER, BENJAMIN, MCCROSSON	8436	1451	4
94-PU-237	HEDL	EVAL-APR78	MANN AND SCHENTER (FAST)	8437	1451	4
94-PU-243	BNL, SRL, LLLEVAL-JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)		8443	1451	4
		12	18	4	18443	1451 97
		12	102	4	18443	1451 98
		13	3	10	18443	1451 99
		14	3	1	18443	1451 100
		14	18	1	18443	1451 101
		14	102	1	18443	1451 102
		15	3	347	18443	1451 103
		15	18	32	18443	1451 104
		15	102	70	18443	1451 105
94-PU-244	HEDL, SRL	EVAL-APR78	MANN, SCHENTER, BENJAMIN, MCCROSSON	8444	1451	4
95-AM-240	INEL	EVAL-AUG78	REICH	8540	1451	4
95-AM-242	SRL	EVAL-AUG75-	BENJAMIN AND MCCROSSON	8542	1451	4
95-AM-244	INEL	EVAL-AUG78	REICH	8544	1451	4
95-AM-244M	INEL	EVAL-AUG78	REICH	8554	1451	4
86-RN-220	INEL	EVAL-AUG78	REICH	8620	1451	4
96-CM-241	HEDL	EVAL-APR78	MANN AND SCHENTER	8641	1451	4
96-CM-242	HEDLSRLLLL	EVAL-APR78	MANN, BENJAMIN, HOWERTON, ET AL.	8642	1451	4
		12	18	5	18642	1451 130
		12	102	5	18642	1451 131
		13	3	9	18642	1451 132
		14	3	1	18642	1451 133
		14	18	1	18642	1451 134
		14	102	1	18642	1451 135
		15	3	403	18642	1451 136
		15	18	87	18642	1451 137
		15	102	33	18642	1451 138
96-CM-247	BNL, SRL, LLLEVAL-JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)		8647	1451	4
		12	18	4	18647	1451 111
		12	102	4	18647	1451 112
		13	3	10	18647	1451 113
		14	3	1	18647	1451 114
		14	18	1	18647	1451 115
		14	102	1	18647	1451 116
		15	3	339	18647	1451 117
		15	18	32	18647	1451 118
		15	102	70	18647	1451 119
96-CM-248	HEDLSRLLLL	EVAL-APR78	MANN, BENJAMIN, HOWERTON, ET AL.	8648	1451	4
		12	18	4	18648	1451 147
		12	102	4	18648	1451 148
		13	3	10	18648	1451 149
		14	3	1	18648	1451 150
		14	18	1	18648	1451 151
		14	102	1	18648	1451 152
		15	3	342	18648	1451 153
		15	18	32	18648	1451 154
		15	102	70	18648	1451 155
96-CM-249	INEL	EVAL-AUG78	REICH	8649	1451	4
97-BK-249	SRL, LLL	EVAL-JAN79	BENJAMIN(SRL), HOWERTON(LLL)	8749	1451	4
		12	18	4	18749	1451 84
		12	102	4	18749	1451 85
		13	3	10	18749	1451 86
		14	3	1	18749	1451 87
		14	18	1	18749	1451 88
		14	102	1	18749	1451 89
		15	3	341	18749	1451 90
		15	18	32	18749	1451 91
		15	102	70	18749	1451 92
97-BK-250	INEL	EVAL-AUG78	REICH	8750	1451	4
88-RA-224	INEL	EVAL-AUG78	REICH	8824	1451	4
98-CF-249	BNL, SRL, LLLEVAL-JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)		8849	1451	4

ENDF/B-5 ACTINIDES FILE

	12	18	4	18849	1451	100
	12	102	4	18849	1451	101
	13	3	10	18849	1451	102
	14	3	1	18849	1451	103
	14	18	1	18849	1451	104
	14	102	1	18849	1451	105
	15	3	344	18849	1451	106
	15	18	32	18849	1451	107
	15	102	70	18849	1451	108
98-CF-250	BNL,SRL,LLLEVAL-JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)		8850	1451	4
	12	18	4	18850	1451	113
	12	102	4	18850	1451	114
	13	3	10	18850	1451	115
	14	3	1	18850	1451	116
	14	18	1	18850	1451	117
	14	102	1	18850	1451	118
	15	3	353	18850	1451	119
	15	18	32	18850	1451	120
	15	102	70	18850	1451	121
98-CF-251	BNL,SRL,LLLEVAL-JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)		8851	1451	4
	12	18	4	18851	1451	113
	12	102	4	18851	1451	114
	13	3	10	18851	1451	115
	14	3	1	18851	1451	116
	14	18	1	18851	1451	117
	14	102	1	18851	1451	118
	15	3	348	18851	1451	119
	15	18	32	18851	1451	120
	15	102	70	18851	1451	121
98-CF-252	BNL,SRL,LLLEVAL-JUL76	KINSEY-ASSEMBLER(SEE COMMENTS)		8852	1451	4
	12	18	4	18852	1451	133
	12	102	4	18852	1451	134
	13	3	10	18852	1451	135
	14	3	1	18852	1451	136
	14	18	1	18852	1451	137
	14	102	1	18852	1451	138
	15	3	262	18852	1451	139
	15	18	32	18852	1451	140
	15	102	70	18852	1451	141
98-CF-253	SRL	EVAL-DEC75 BENJAMIN AND MCCROSSON		8853	1451	4
99-ES-253	BNL,SRL	EVAL-JUL76 KINSEY,BENJAMIN, AND MCCROSSON		8953	1451	4
				-1	0	0

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92-U-235	4CCPIJE	EVAL-APR85	KONSHIN, SUKHOVITSKII, ANTSIPOV	9211	1451	4
94-PU-239	4CCPIJE	EVAL-	84 KON'SHIN, SUKHOVITSKII, ANTSIPOV	9421	1451	4
			12	4	6	19421 1451 217
			12	16	5	19421 1451 218
			12	17	4	19421 1451 219
			12	18	4	19421 1451 220
			12	102	6	19421 1451 221
			15	4	52	19421 1451 222
			15	16	29	19421 1451 223
			15	17	20	19421 1451 224
			15	18	20	19421 1451 225
			15	102	60	19421 1451 226
94-PU-240	4CCPIJE	EVAL-DEC80	KON'SHIN, SUKHOVITSKII, ANTSIPOV	9431	1451	4
			12	4	5	09431 1451 194
			12	16	5	09431 1451 195
			12	17	4	09431 1451 196
			12	18	4	09431 1451 197
			12	102	6	09431 1451 198
			15	4	48	09431 1451 199
			15	16	29	09431 1451 200
			15	17	16	09431 1451 201
			15	18	22	09431 1451 202
			15	102	57	09431 1451 203
94-PU-241	4CCPIJE	EVAL-FEB79	KON'SHIN, SUKHOVITSKII, ANTSIPOV	9441	1451	4
			12	4	6	09441 1451 199
			12	16	5	09441 1451 200
			12	17	4	09441 1451 201
			12	18	4	09441 1451 202
			12	102	6	09441 1451 203
			15	4	53	09441 1451 204
			15	16	29	09441 1451 205
			15	17	16	09441 1451 206
			15	18	22	09441 1451 207
			15	102	57	09441 1451 208
94-PU-242	4CCPIJE	EVAL-DEC80	KON'SHIN, SUKHOVITSKII, ANTSIPOV	9450	1451	4
			12	3	5	09450 1451 184
			15	3	45	09450 1451 185
						-1 0 0 0

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90-TH-232	INP	EVAL-FEB79	G.VASILIU, S.MATEESCU ET AL.	9090	1451	4
91-PA-233	INP	EVAL- 80	G.VASILIU, S.MATEESCU ET AL.	9193	1451	4
92-U -235	2JAP	EVAL-	AUTHOR	9235	1451	4
92-U -238	2JAP	EVAL-	AUTHOR	9238	1451	4
93-NP-237	2FR CAD	EVAL-MAR81	H.DERRIEN, E.FORT	9337	1451	4
94-PU-239	ITMO	EVAL-SEP80	KON'SHIN, SUKHOVITSKII, ANTSIPOV	9421	1451	4
		12	4	6	19421	1451 222
		12	16	5	19421	1451 223
		12	17	4	19421	1451 224
		12	18	4	19421	1451 225
		12	102	6	19421	1451 226
		15	4	49	19421	1451 227
		15	16	26	19421	1451 228
		15	17	20	19421	1451 229
		15	18	20	19421	1451 230
		15	102	53	19421	1451 231
94-PU-240	IHMT	EVAL-DEC80	KON'SHIN, SUKHOVITSKII, ANTSIPOV	9431	1451	4
		12	4	5	19431	1451 181
		12	16	5	19431	1451 182
		12	17	4	19431	1451 183
		12	18	4	19431	1451 184
		12	102	6	19431	1451 185
		15	4	48	19431	1451 186
		15	16	26	19431	1451 187
		15	17	16	19431	1451 188
		15	18	22	19431	1451 189
		15	102	51	19431	1451 190
94-PU-238	2FR CAD	EVAL-NOV81	H.DERRIEN	9438	1451	4
94-PU-239	2JAP	EVAL-	AUTHOR	9439	1451	4
94-PU-241	ITMO	EVAL-FEB79	KON'SHIN, SUKHOVITSKII, ANTSIPOV	9440	1451	4
94-PU-240	2JAP	EVAL-	AUTHOR	9445	1451	4
94-PU-241	2JAP	EVAL-	AUTHOR	9448	1451	4
94-PU-242	ITMO	EVAL-MAY79	KON'SHIN, SUKHOVITSKII, ANTSIPOV	9450	1451	4
95-AM-241	3CPRCPR	EVAL-84		9501	1451	4
95-AM-243	AERE	EVAL-DEC80	LYNN, PATRICK, SOWERBY AND BOWEY	9530	1451	4
95-AM-241	2FR CAD	EVAL-DEC81	E.FORT, H.DERRIEN	9541	1451	4
96-CM-242	CNEN	EVAL-MAR82	CNEN-CDC-BOLOGNA	9662	1451	4
96-CM-243	CNEN	EVAL-MAR82	CNEN-CDC-BOLOGNA	9663	1451	4
96-CM-245	CNEN	EVAL MAR82	CNEN-CDC-BOLOGNA	9665	1451	4
96-CM-246	CNEN	EVAL-MAR82	CNEN-CDC-BOLOGNA	9666	1451	4
				-1	0	0

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41-NB- 93	ANL,LLL	EVAL-MAY74	R.HOWERTON(LLL) AND A.SMITH	1189	1451	4	
		12	102	5	1189	1451	129
		13	3	10	1189	1451	130
		14	3	1	1189	1451	131
		14	102	1	1189	1451	132
		15	3	412	1189	1451	133
		15	102	22	1189	1451	134
28-NI	BNL(NNCSC)	EVAL-DEC73	M.R.BHAT	1190	1451	4	
		12	102	6	1190	1451	216
		13	3	11	1190	1451	217
		14	3	1	1190	1451	218
		14	102	1	1190	1451	219
		15	3	366	1190	1451	220
		15	102	66	1190	1451	221
24-CR	BNL(NNCSC)	EVAL-APR74	A.PRINCE	1191	1451	4	
		12	102	4	1191	1451	264
		13	3	9	1191	1451	265
		14	3	1	1191	1451	266
		14	102	1	1191	1451	267
		15	3	384	1191	1451	268
		15	102	36	1191	1451	269
26-FE	ORNL	EVAL-JAN74	PEREY,FU,PENNY,KINNEY,WRIGHT	1192	1451	4	
		12	3	13	1192	1451	321
		12	51	4	1192	1451	322
		12	52	4	1192	1451	323
		12	102	10	1192	1451	324
		14	3	1	1192	1451	325
		14	51	1	1192	1451	326
		14	52	1	1192	1451	327
		14	102	1	1192	1451	328
		15	3	863	1192	1451	329
		15	102	1186	1192	1451	330
13-AL-27	LASL	EVAL-DEC73	P.G.YOUNG, D.G.FOSTER, JR.	1193	1451	4	
		12	102	271	1193	1451	395
		13	4	917	1193	1451	396
		13	28	115	1193	1451	397
		13	103	120	1193	1451	398
		14	4	1	1193	1451	399
		14	28	1	1193	1451	400
		14	102	1	1193	1451	401
		14	103	1	1193	1451	402
		15	4	342	1193	1451	403
		15	28	104	1193	1451	404
23-V	ORNL	EVAL-SEP72	S.K.PENNY, L.W.OWEN	1196	1451	4	
		12	3	11	1196	1451	143
		12	16	9	1196	1451	144
		12	22	9	1196	1451	145
		12	28	9	1196	1451	146
		12	102	9	1196	1451	147
		14	3	1	1196	1451	148
		14	16	1	1196	1451	149
		14	22	1	1196	1451	150
		14	28	1	1196	1451	151
		14	102	1	1196	1451	152
		15	3	1130	1196	1451	153
		15	16	463	1196	1451	154
		15	22	378	1196	1451	155
		15	28	545	1196	1451	156
		15	102	798	1196	1451	157
25-MN- 55	BNL	EVAL-FEB74	H.TAKAHASHI	1197	1451	4	
		12	3	11	1197	1451	200
		12	51	3	1197	1451	201
		12	52	3	1197	1451	202

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		12	53	3	1197	1451	203
		12	54	3	1197	1451	204
		12	55	3	1197	1451	205
		12	102	6	1197	1451	206
		14	3	1	1197	1451	207
		14	51	1	1197	1451	208
		14	52	1	1197	1451	209
		14	53	1	1197	1451	210
		14	54	1	1197	1451	211
		14	55	1	1197	1451	212
		14	102	1	1197	1451	213
		15	3	235	1197	1451	214
		15	102	92	1197	1451	215
3-LI- 7	LASL	EVAL-OCT72	R.J.LABAUVE, L.STEWART, M.BATTAT		1272	1451	4
		12	51	4	1272	1451	163
		12	102	13	1272	1451	164
		14	51	1	1272	1451	165
		14	102	1	1272	1451	166
8- O- 16	LASL	EVAL-AUG73	P.YOUNG, D.FOSTER, JR, G.HALE		1276	1451	4
		12	102	16	1276	1451	391
		13	4	463	1276	1451	392
		13	22	10	1276	1451	393
		13	103	64	1276	1451	394
		13	107	258	1276	1451	395
		14	4	56	1276	1451	396
		14	22	1	1276	1451	397
		14	102	1	1276	1451	398
		14	103	1	1276	1451	399
		14	107	1	1276	1451	400
42-MO	LLL	EVAL-APR74	R.J.HOWERTON		1287	1451	4
		12	102	5	1287	1451	53
		13	3	21	1287	1451	54
		14	3	1	1287	1451	55
		14	102	1	1287	1451	56
		15	3	399	1287	1451	57
		15	102	36	1287	1451	58
82-PB	ORNL	EVAL-JUL71	C.Y.FU AND F.G.PEREY		1288	1451	4
		12	3	18	1288	1451	254
		14	3	1	1288	1451	255
		15	3	869	1288	1451	256
4-BE- 9	LLL	EVAL-DEC71	HOWERTON, PERKINS		1289	1451	4
		12	102	4	1289	1451	320
		12	741	4	1289	1451	321
		14	102	1	1289	1451	322
		14	741	1	1289	1451	323
		15	102	22	1289	1451	324
		15	741	12	1289	1451	325
29-CU	SAI	EVAL-NOV73	M.K. DRAKE AND M.P. FRICKE		1295	1451	4
		12	102	6	1295	1451	349
		13	3	180	1295	1451	350
		14	3	1	1295	1451	351
		14	102	1	1295	1451	352
		15	3	203	1295	1451	353
		15	102	22	1295	1451	354
3-LI-0060	LASL	EVAL-SEP77	G.HALE, L.STEWART, P.G.YOUNG		1303	1451	4
		12	57	4	11303	1451	308
		12	102	13	01303	1451	309
		14	57	1	11303	1451	310
		14	102	1	01303	1451	311
5-B - 100	LASL	EVAL-DEC76	G.HALE, L.STEWART, P.YOUNG		1305	1451	4
		12	102	40	11305	1451	378
		12	781	4	01305	1451	379
		13	4	368	11305	1451	380

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	13	103	88	11305	1451	381	
	14	4	1	01305	1451	382	
	14	102	1	11305	1451	383	
	14	103	1	01305	1451	384	
	14	781	1	01305	1451	385	
6-C -	ORNL	EVAL-DEC73	C.Y.FU AND F.G.PEREY	1306	1451	4	
		12	102	13	11306	1451	238
		13	51	43	11306	1451	239
		14	51	143	11306	1451	240
		14	102	1	01306	1451	241
22-TI- 47	ANL	EVAL-JAN77	C.PHILIS,O.BERSILLON,D.SMITH,ETC	6428	1451	4	
22-TI- 48	ANL	EVAL-JAN77	C.PHILIS,O.BERSILLON,D.SMITH ETC.	6429	1451	4	
28-NI- 60	BNL	EVAL-MAR77	M.DIVADEENAM	6434	1451	4	
29-CU- 63	ORNL	EVAL-JUL78	C.Y.FU	6435	1451	4	
5-B - 11	LLL	EVAL-MAY78	R.J.HOWERTON	7811	1451	4	
		12	16	4	7811	1451	32
		12	51	4	7811	1451	33
		12	52	4	7811	1451	34
		12	53	4	7811	1451	35
		12	91	4	7811	1451	36
		12	102	4	7811	1451	37
		12	103	4	7811	1451	38
		12	107	4	7811	1451	39
		14	16	1	7811	1451	40
		14	51	1	7811	1451	41
		14	52	1	7811	1451	42
		14	53	1	7811	1451	43
		14	91	1	7811	1451	44
		14	102	1	7811	1451	45
		14	103	1	7811	1451	46
		14	107	1	7811	1451	47
		15	16	12	7811	1451	48
		15	51	12	7811	1451	49
		15	52	12	7811	1451	50
		15	53	16	7811	1451	51
		15	91	14	7811	1451	52
		15	102	14	7811	1451	53
		15	103	12	7811	1451	54
		15	107	12	7811	1451	55
28-NI- 58	LLL	EVAL-MAY78	R.J.HOWERTON	7837	1451	4	
		12	102	4	7837	1451	28
		13	3	7	7837	1451	29
		14	3	1	7837	1451	30
		14	102	1	7837	1451	31
		15	3	54	7837	1451	32
		15	102	34	7837	1451	33
74-W -	LLL	EVAL-MAY78	R.J.HOWERTON	7856	1451	4	
		12	102	4	7856	1451	25
		13	3	8	7856	1451	26
		14	3	1	7856	1451	27
		14	102	1	7856	1451	28
		15	3	260	7856	1451	29
		15	102	32	7856	1451	30
					-1	0	0
					0	0	0

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1-H -2	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	130	1451	4
2-HE-3	4CCPFEI	EVAL-	L.P.ABAGYAN	210	1451	4
2-HE-4	4CCPFEI	EVAL-	L.P.ABAGYAN	220	1451	4
3-LI- 6	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	330	1451	4
4-BE-9	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	430	1451	4
5-B-10	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	530	1451	4
5-B - 10	3CPRCPR	EVAL-MAY82	QI H. C., LIU M.F. LIU Y. C.	540	1451	4
6-C -12	2FR BRC	EVAL-OCT75	J.LACHKAR,F.COCU,G.HAOUAT ET AL.	620	1451	4
		12	102	13	0 620	1451 138
		13	51	43	0 620	1451 139
		14	51	143	0 620	1451 140
6-C -12	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	630	1451	4
7-N-14	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	730	1451	4
8-O -16	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	830	1451	4
9-F-19	2AUSIRK	EVAL-	79 S.TAGESEN,H.VONACH,B.STROHMAIER	920	1451	4
9-F-19	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	930	1451	4
11-NA-23	3POLIBJ	EVAL-FEB79	ADAMSKI, HERMAN AND MARCINKOWSKI	1120	1451	4
11-NA-23	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	1130	1451	4
12-MG	3CPRCPR	EVAL-MAR83	TAUG GUO-YOU	1210	1451	4
12-MG-24	2AUSIRK	EVAL-	79 S.TAGESEN,H.VONACH,B.STROHMAIER	1220	1451	4
12-MG-24	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	1230	1451	4
13-AL- 27	2AUSIRK	EVAL-JAN81	S.TAGESEN+	1320	1451	4
13-AL-27	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	1330	1451	4
14-SI	3CPRCPR	EVAL-MAR83	SHI ZHAO-MIN	1410	1451	4
14-SI	3DDRTUD	EVAL-AUG81	HERMSDORF, NEUMANN, PAFFRATH, PHILIP	1415	1451	4
		13	4	182	01415	1451 396
		13	16	7	01415	1451 397
		13	22	6	01415	1451 398
		13	28	6	01415	1451 399
		13	103	9	01415	1451 400
		13	107	10	01415	1451 401
		13	719	6	01415	1451 402
		13	799	6	01415	1451 403
		14	4	1	01415	1451 404
		14	16	1	01415	1451 405
		14	22	1	01415	1451 406
		14	28	1	01415	1451 407
		14	103	1	01415	1451 408
		14	107	1	01415	1451 409
		14	719	1	01415	1451 410
		14	799	1	01415	1451 411
		15	4	94	01415	1451 412
		15	22	36	01415	1451 413
		15	28	49	01415	1451 414
		15	102	171	01415	1451 415
		15	103	109	01415	1451 416
		15	107	146	01415	1451 417
		15	719	45	01415	1451 418
		15	799	47	01415	1451 419
14-SI-28	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	1430	1451	4
14-SI-28	3POLINR	EVAL-	83 L.ADAMSKI,M.HERMAN ET AL.	1450	1451	4
15-P-31	2AUSIRK	EVAL-	79 S.TAGESEN,H.VONACH,B.STROHMAIER	1520	1451	4
15-P-31	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	1530	1451	4
16-S-32	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	1630	1451	4
16-S-34	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	1640	1451	4
17-CL-35	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	1730	1451	4
19-K-39	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	1930	1451	4
19-K-41	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	1940	1451	4
20-CA-42	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	2030	1451	4
20-CA-44	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	2040	1451	4
21-SC- 45	1USABNL	EVAL-JAN82	MAGURNO MUGHABGHAB,	2110	1451	4
21-SC-45	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	2130	1451	4
22-TI	2FR BRC	EVAL-AUG76	TROCHON+	2200	1451	4

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22-TI-46	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2230	1451	4
22-TI-47	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2240	1451	4
22-TI-48	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2250	1451	4
22-TI-49	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2260	1451	4
22-TI-50	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2270	1451	4
23-V-51	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2330	1451	4
24-CR-000	4CCPFEI	EVAL- 77	V.M.BYCHKOV AT ALL.		2410	1451	4
24-CR-52	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2420	1451	4
24-CR-50	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2440	1451	4
25-MN-55	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2530	1451	4
25-MN- 55	4CCPFEI	EVAL- 80			2533	1451	4
25-MN- 55	1USALRL	EVAL- 77			2535	1451	4
26-FE-54	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2610	1451	4
26-FE-56	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2620	1451	4
26-FE-000	4CCPFEI	EVAL- 75	V.M.BYCHKOV ET AL.		2640	1451	4
27-CO-59	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2730	1451	4
28-NI-000	4CCPFEI	EVAL- 77	V.M.BYCHKOV AT ALL.		2810	1451	4
28-NI-58	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2820	1451	4
28-NI- 58	2AUSIRK	EVAL-SEP82	G.WINKLER,A.PAVLIK,H.VONACH	ET AL	2825	1451	4
28-NI-60	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2830	1451	4
28-NI-62	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2840	1451	4
29-CU-63	2AUSIRK	EVAL- 79	S.TAGESEN,H.VONACH,G.WINKLER		2920	1451	4
29-CU-65	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2930	1451	4
29-CU-63	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	2940	1451	4
30-ZN-64	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3010	1451	4
30-ZN-64	2AUSIRK	EVAL- 79	S.TAGESEN,H.VONACH,B.STROHMAIER		3020	1451	4
30-ZN-66	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3040	1451	4
30-ZN-68	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3070	1451	4
31-GA-69	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3130	1451	4
31-GA-71	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3140	1451	4
32-GE-70	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3230	1451	4
32-GE-76	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3240	1451	4
33-AS-75	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3330	1451	4
34-SE-74	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3430	1451	4
34-SE-76	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3440	1451	4
34-SE-78	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3450	1451	4
34-SE-80	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3460	1451	4
34-SE-82	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3470	1451	4
35-BR-79	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3530	1451	4
35-BR-81	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3540	1451	4
37-RB-85	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3730	1451	4
37-RB-87	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3740	1451	4
38-SR-84	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3830	1451	4
38-SR-88	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3840	1451	4
38-SR-86	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3850	1451	4
39- Y-89	2FR BRC	EVAL-JUN74	C.A.PHILIS		3920	1451	4
39-Y-89	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	3930	1451	4
40-ZR	3CPRCPR	EVAL-MAR83	ZHOU YI MING,CAO JIAN HUA		4010	1451	4
40-ZR-90	2AUSIRK	EVAL- 79	VONACH,TAGESEN,PAVLIK,WINKLER		4020	1451	4
40-ZR-90	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	4030	1451	4
40-ZR-94	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	4070	1451	4
40-ZR-92	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	4080	1451	4
41-NB- 93	3DDRTUD	EVAL- 77	D.HERMSDORF ET AL.		4110	1451	4
41-NB- 93	3DDRTUD	EVAL- 77	D.HERMSDORF ET AL.		4111	1451	4
41-NB-93	2AUSIRK	EVAL- 79	S.TAGESEN,H.VONACH,B.STROHMAIER		4120	1451	4
41-NB-93	4CCPFEI	EVAL-NOV78	V.M.BYCHKOV,K.I.ZOLOTAREV	ET AL.	4130	1451	4
41-NB-93	2FR BRC	EVAL-SEP74	C.A.PHILIS,P.G.YOUNG		4140	1451	4
42-MO-	3CPRCPR	EVAL-MAR83	LIU SHENG-KANG		4210	1451	4
42-MO-92	3RUMPIT	EVAL-JUN83	M. IVASCU,M. AND V.AVRIGEANU		4222	1451	4
42-MO-94	3RUMPIT	EVAL-JUN83	M. IVASCU,M. AND V.AVRIGEANU		4224	1451	4
42-MO-95	3RUMPIT	EVAL-JUN83	M. IVASCU,M. AND V.AVRIGEANU		4225	1451	4
42-MO-96	3RUMPIT	EVAL-JUN83	M. IVASCU,M. AND V.AVRIGEANU		4226	1451	4
42-MO-97	3RUMPIT	EVAL-JUN83	M. IVASCU,M. AND V.AVRIGEANU		4227	1451	4

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42-MO-98	3RUMPIT	EVAL-JUN83	M. IVASCU, M. AND V. AVRIGEANU	4228	1451	4
42-MO-100	3RUMPIT	EVAL-JUN83	M. IVASCU, M. AND V. AVRIGEANU	4229	1451	4
42-MO-92	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	4230	1451	4
45-RH-103	2AUSIRK	EVAL- 79	S. TAGESEN, H. VONACH, B. STROHMAIER	4520	1451	4
45-RH-103	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	4530	1451	4
47-AG-109	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	4730	1451	4
47-AG-109	1USALRL	EVAL- 73		4736	1451	4
48-CD-106	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	4830	1451	4
48-CD-111	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	4840	1451	4
48-CD-112	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	4850	1451	4
48-CD-116	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	4860	1451	4
49-IN-113	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	4930	1451	4
49-IN-115	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	4940	1451	4
50-SN-112	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	5030	1451	4
50-SN-118	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	5040	1451	4
51-SB-121	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	5130	1451	4
51-SB-123	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	5140	1451	4
53-I-127	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	5310	1451	4
55-CS-133	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	5530	1451	4
58-CE-140	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	5830	1451	4
58-CE-142	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	5840	1451	4
59-PR-141	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	5930	1451	4
60-ND-142	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	6030	1451	4
60-ND-146	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	6040	1451	4
60-ND-148	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	6050	1451	4
60-ND-150	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	6060	1451	4
62-SM-144	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	6230	1451	4
62-SM-148	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	6240	1451	4
62-SM-150	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	6250	1451	4
62-SM-152	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	6260	1451	4
62-SM-154	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	6270	1451	4
68-ER-162	4CCPFEI	EVAL-		6810	1451	4
68-ER-164	4CCPFEI	EVAL-		6820	1451	4
68-ER-166	4CCPFEI	EVAL-		6830	1451	4
68-ER-167	4CCPFEI	EVAL-		6840	1451	4
68-ER-168	4CCPFEI	EVAL-		6850	1451	4
68-ER-170	4CCPFEI	EVAL-		6860	1451	4
69-TM-169	2FR BRC	EVAL-SEP74	C. A. PHILIS, P. G. YOUNG	6920	1451	4
69-TM-169	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	6930	1451	4
71-LU-175	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	7130	1451	4
72-HF-176	2FR SAC	EVAL-JUL75	J. KREBS, G. LE COQ, P. RIBON	7220	1451	4
72-HF-177	2FR SAC	EVAL-JUL74	J. KREBS, G. LE COQ, P. RIBON	7230	1451	4
72-HF-178	2FR SAC	EVAL-JUL74	J. KREBS, G. LE COQ, P. RIBON	7240	1451	4
72-HF-179	2FR SAC	EVAL-JUL74	J. KREBS, G. LE COQ, P. RIBON	7250	1451	4
72-HF-180	2FR SAC	EVAL-JUL74	J. KREBS, G. LE COQ, P. RIBON	7260	1451	4
73-TA-181	3CPRCPR	EVAL-JUN82	YAO LI-SHAN	7310	1451	4
73-TA-181	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	7330	1451	4
74- W-000	3CPRCPR	EVAL- 79	MA GONG-GUI, XIA YI-JUN ET AL.	7410	1451	4
77-IR-191	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	7730	1451	4
77-IR-193	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	7740	1451	4
79-AU-197	3CPRCPR	EVAL-JAN83	FENG GIA-ZHEN	7910	1451	4
79-AU-197	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	7930	1451	4
81-TL-203	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	8110	1451	4
81-TL-205	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	8140	1451	4
82-PB-000	3CPRCPR	EVAL- 79	CAO JIAN-HUA, MA GONG-GUI ET AL.	8209	1451	4
82-PB-204	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	8230	1451	4
82-PB-208	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	8240	1451	4
83-BI-209	4CCPFEI	EVAL-NOV78	V.M. BYCHKOV, K.I. ZOLOTAREV ET AL.	8330	1451	4
90-TH-232	4CCPFEI	EVAL-DEC80	V.M. BYCHKOV ET AL.	9030	1451	4
90-TH-232	3RUMPIT	EVAL-FEB79	G. VASILIU, S. MATEESCU ET AL.	9090	1451	4
91-PA-231	4CCPFEI	EVAL-DEC80	V.M. BYCHKOV ET AL.	9130	1451	4
91-PA-233	4CCPFEI	EVAL-DEC80	V.M. BYCHKOV ET AL.	9140	1451	4
91-PA-233	3RUMPIT	EVAL- 80	G. VASILIU, S. MATEESCU ET AL.	9193	1451	4

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92- U-235	4CCPIJE	EVAL-	75	V.A.KONSHIN,G.V.ANTSIPOV ET AL.	9210	1451	4	
92-U-235	3CPRCPR	1979		YU BAO-SHENG ET AL.	9220	1451	4	
92-U-238	4CCPFEI	EVAL-NOV78		V.M.BYCHKOV,K.I.ZOLOTAREV ET AL.	9230	1451	4	
92-U-233	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9260	1451	4	
92-U-234	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9270	1451	4	
92-U-235	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9280	1451	4	
92-U-238	3CPRCPR	1979		CHOU YOU-PU ET AL.	9290	1451	4	
93-NP-237	2FR CAD	EVAL-MAR81		H.DERRIEN,E.FORT	9337	1451	4	
93-NP-237	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9340	1451	4	
94-PU-238	4CCPFEI	EVAL-	73	L.P.ABAGYAN,A.G.DOVBENKO ET AL.	9410	1451	4	
94-PU-239	3CPRCPR	1979		LIANG QI-CHANG,LIU JI-CAI	9415	1451	4	
94-PU-239	4CCPIJE	EVAL-SEP80		KON'SHIN, SUKHOVITSKII, ANTSIPOV	9421	1451	4	
			12	4	6	19421	1451	222
			12	16	5	19421	1451	223
			12	17	4	19421	1451	224
			12	18	4	19421	1451	225
			12	102	6	19421	1451	226
			15	4	49	19421	1451	227
			15	16	26	19421	1451	228
			15	17	20	19421	1451	229
			15	18	20	19421	1451	230
			15	102	53	19421	1451	231
94-PU-240	4CCPIJE	EVAL-DEC80		KON'SHIN, SUKHOVITSKII, ANTSIPOV	9431	1451	4	
			12	4	5	19431	1451	181
			12	16	5	19431	1451	182
			12	17	4	19431	1451	183
			12	18	4	19431	1451	184
			12	102	6	19431	1451	185
			15	4	48	19431	1451	186
			15	16	26	19431	1451	187
			15	17	16	19431	1451	188
			15	18	22	19431	1451	189
			15	102	51	19431	1451	190
94-PU-238	2FR CAD	EVAL-NOV81		H.DERRIEN	9438	1451	4	
94-PU-241	4CCPIJE	EVAL-FEB79		KON'SHIN, SUKHOVITSKII, ANTSIPOV	9440	1451	4	
94-PU-242	4CCPIJE	EVAL-MAY79		KON'SHIN, SUKHOVITSKII, ANTSIPOV	9450	1451	4	
			15	3	45	19450	1451	155
94-PU-239	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9470	1451	4	
94-PU-240	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9480	1451	4	
94-PU-241	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9490	1451	4	
94-PU-242	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9495	1451	4	
AM-241	2UK HAR	EVAL-	79	J.E.LYNN,B.H.PATRICK,M.G.SOWERBY	9509	1451	4	
95-AM-243	4CCPFEI	EVAL-	73	L.P.ABAGYAN,A.G.DOVBENKO ET AL.	9510	1451	4	
95-AM-243	2UK HAR	EVAL-DEC80		LYNN, PATRICK, SOWERBY AND BOWEY	9530	1451	4	
95-AM-241	2FR CAD	EVAL-DEC81		E.FORT,H.DERRIEN	9541	1451	4	
96-CM-244	4CCPFEI	EVAL-	73	L.P.ABAGYAN,A.G.DOVBENKO ET AL.	9610	1451	4	
96-CM-241	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9630	1451	4	
96-CM-242	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9640	1451	4	
96-CM-248	2ITYBOL	EVAL DEC83		ENEA-BOLOGNA	9648	1451	4	
96-CM-243	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9650	1451	4	
96-CM-244	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9660	1451	4	
96-CM-245	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9670	1451	4	
96-CM-246	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9680	1451	4	
96-CM-247	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9690	1451	4	
96-CM-248	4CCPFEI	EVAL-DEC80		V.M.BYCHKOV ET AL.	9695	1451	4	
						-1	0	0