

OECD

DAT/324-0

Memo 4-C 2/115

NDB/303880/cel
30th October, 1980.

To: Distribution
From: P.D. Johnston *P.D.J*
Subject: Comparison of fission product yield data coverage in CROUCH, EXFOR and CINDA

The references for experimental fission product yield data included in the 1977 version of Dr. Crouch's file of compiled data have been compared with the CINDA and EXFOR files. The enclosed listing gives all references in the Crouch file, corresponding EXFOR accession numbers, and an indication of the absence of the reference (as coded) in the CINDA file. Some references may have been missed in CINDA because of inconsistent reference coding, particularly for conference proceedings. Of the 394 references in the Crouch file, 103 are missing in CINDA, and only 35 have been compiled in EXFOR. It is obvious from this comparison that the EXFOR file is very far from being sufficiently complete for use in an adequate evaluation of fission product yields. Even for references published since 1970 the EXFOR coverage is very poor.

I would welcome your comments on whether you consider that the EXFOR coverage for your area (either all, or post 1970) can be improved in the near future (about 1 to 2 years). I suggest that references missing in CINDA should be added to the file by the Centre for the area in which the experiment was done.

I would like to point out that this is a "one-way" comparison - Crouch → EXFOR/CINDA, and that there may be many other references in CINDA and compilations in EXFOR that do not appear in the Crouch file.

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03600

REFERENCE	DATE	LAB AREA	EXFOR	CINDA
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---AREA 1---				
58GENEVA15	4365809	MCM	1	
58GENEVA15	4445809	NRD	1	
58GENEVA15	4495809	NRD	1	
58GENEVA15	4595809	CRC	1	
65ATLANT	6500		1	NOT IN CINDA
65SALZB 1	4236507	NRD	1	
69VIENNA	8136907	MIS	1	
70LVEG	213067001	LAS	1	NOT IN CINDA
70MARBG	687009	LAS	1	NOT IN CINDA
75WASH	3787503	ACC	1	NOT IN CINDA
AD-62702	76500	NRD	1	NOT IN CINDA
AD-686041	6812	NRD	1	NOT IN CINDA
AECD-3551	5308	LAS	1	
AECD-3597	5300	LAS	1	NOT IN CINDA
ANDERSON	7200	TEX	1	NOT IN CINDA
ANL-4927	5200	ANL	1	
ANL-4928	5200	ANL	1	NOT IN CINDA
ANS 13	907007	ANL	1	
ANS 14	3707106	ANL	1	
ANS 15	4837200	ANL	1	
ANS 17	5317300		1	NOT IN CINDA
ANS 19	3977410	LRL	1	
ANS 22	6777500		1	
ANS 24	4587600	ANL	1	
BAYHURST	6000	LAS	1	NOT IN CINDA
BERGE	7200	MIS	1	NOT IN CINDA
BNWL-281	7300	BNW	1	NOT IN CINDA
CJC 31	485300	CRC	1	NOT IN CINDA
CJC 31	1205302	CRC	1	
CJC 31	2425300	CRC	1	
CJC 32	10175411	CPC	1	
CJC 33	8305505	MCM	1	EXFOR12086
CJC 34	1935603	MCM	1	
CJC 34	2015603	CRC	1	
CJC 34	2275603	MCM	1	
CJC 34	2335603	MCM	1	
CJC 35	9805709	CRC	1	
CJC 37	6605904	CRC	1	
CJC 38	4216003	MCG	1	
CJC 38	4646003	MCG	1	
CJC 38	21476011	CRC	1	
CJC 39	6286103	MCM	1	
CJC 46	16636805	MCM	1	
CJC 46	29116809	MCM	1	
CJC 48	6417002	TOP	1	
CJP 31	4195300	PCM	1	
CJP 32	5225400	PCM	1	
CJP 33	5415509	MCM	1	
CJP 33	6405511	PCM	1	EXFOR12007
CJP 33	6935511	PCM	1	NOT IN CINDA
CJP 35	9695704	MCM	1	
CJP 37	9165908	PCM	1	
CJP 37	9265908	PCM	1	
CJP 38	16001	MCF	1	
CJP 39	3156102	CRC	1	
CJP 39	13916109	CRC	1	
CJP 40	10176208	MCM	1	
CJP 42	20636400	AI	1	
CJP 43	10366506	CRC	1	

CJP	44	2376601	CRC	1	
CJP	44	10116605	MCM	1	
CJP	47	14096906	MCM	1	
CJP	48	17087007	MCM	1	
CJP	49	7857104	CRC	1	
CJP	50	31007200	GA	1	
CZC	23	18865800	CSE	1	NOT IN CINDA
DA-72-17		0517200	WAS	1	NOT IN CINDA
DP-MS-73		297300	MIS	1	NOT IN CINDA
EICHOR		7200	MIS	1	NOT IN CINDA
EPL	3	896707	ARK	1	NOT IN CINDA
GEAP-5356		6709	GEP	1	
ICP-1058		7410	ACC	1	
IDO-16797		6207	MTR	1	
IS- 558		6300	IDW	1	
JIN	1	455503	ANL	1	
JIN	4	2395700	ANL	1	
JIN	5	125700	ARK	1	
JIN	5	935700	CRC	1	
JIN	5	1535800	ARK	1	
JIN	6	2635800	WAS	1	
JIN	10	1835907	LAS	1	
JIN	12	125912	ARK	1	
JIN	12	2016002	WAS	1	
JIN	12	2066002	LAS	1	
JIN	12	2236002	ORL	1	
JIN	20	66111	CRC	1	
JIN	24	3376200	ANL	1	
JIN	26	4016403	ARK	1	
JIN	26	11296407	NYS	1	
JIN	27	2736502	NRD	1	
JIN	27	5036503	ARK	1	NOT IN CINDA
JIN	27	11836506	NRD	1	
JIN	27	14476506	BNL	1	
JIN	27	19176509	NRD	1	
JIN	28	7636603	DRL	1	
JIN	28	9216604	ANL	1	
JIN	28	17636609	SRL	1	
JIN	28	17876609	KAP	1	
JIN	28	20716610	ARK	1	
JIN	28	30716705	ARK	1	
JIN	30	3456802	ARK	1	
JIN	30	6776805	ARK	1	NOT IN CINDA
JIN	30	11456806	ARK	1	
JIN	31	5856903	MIT	1	NOT IN CINDA
JIN	31	5916903	ARK	1	
JIN	31	19356907	ANL	1	NOT IN CINDA
JIN	31	26236900	ARK	1	
JIN	31	29936910	WAS	1	
JIN	31	30056910	WAS	1	
JIN	31	33576911	ANL	1	
JIN	32	25017008	WAS	1	
JIN	33	17101	MIS	1	
JIN	33	5877103	LAS	1	
JIN	33	6437103	MTR	1	
JIN	33	6517103	ARK	1	
JIN	33	8767103	ARK	1	
JIN	33	15437107	MIS	1	
JIN	33	22717108	MIS	1	NOT IN CINDA
JIN	33	36437111	ARK	1	NOT IN CINDA
JIN	34	8017200	MIS	1	NOT IN CINDA
JIN	34	14797200	WAS	1	NOT IN CINDA
JIN	34	21097200	SRL	1	NOT IN CINDA
JIN	34	24057200	ARK	1	NOT IN CINDA
JIN	34	24137200	WAS	1	NOT IN CINDA
JIN	35	117300	SRL	1	NOT IN CINDA

JIN	35	14437300	ARK	1	
JIN	35	26397300	MCM	1	
JIN	35	30757300	ARK	1	NOT IN CINDA
JIN	35	30797300	MCM	1	
JIN	36	12017400	WAS	1	
JIN	36	13927400	CAN	1	NOT IN CINDA
JIN	37	4197502	ARK	1	
JIN	37	8697504	ANL	1	EXFOR10517
JIN	37	8817504	ANL	1	
JIN	37	13417409	ARK	1	EXFOR10433
JIN	37	22437500	ARL	1	NOT IN CINDA
JIN	38	6617600	ANL	1	
JIN	39	7597700	ANL	1	
JRC	3	2336900	USA	1	NOT IN CINDA
LA-	1997	5602	LAS	1	
LA-	6129	7600	LAS	1	NOT IN CINDA
LADC-	12-142	7006	LAS	1	NOT IN CINDA
MCLAUGHLIN		7109	ASU	1	NOT IN CINDA
MIT-	63	5300	MIT	1	NOT IN CINDA
NP	34	3676206	MCM	1	
NP/A	151	657000	ANL	1	
NP/A	195	2577200	NBS	1	
NSE	10	706105	ARK	1	NOT IN CINDA
NSE	23	1156510	ORL	1	
NSE	42	1917000	MTR	1	
NSE	54	2637400	ANL	1	
NT	25	2947500	ANL	1	NOT IN CINDA
NUC	24	626612	MIT	1	NOT IN CINDA
PNE	114	6302	LAS	1	NOT IN CINDA
PR	78	1295004	MCM	1	
PR	84	525110	ANL	1	
PR	85	5705202	LAS	1	
PR	89	1945601	ANL	1	
PR	89	5525302	CHI	1	
PR	89	5705302	ANL	1	
PR	91	14585309	BNL	1	
PR	92	9075311	CHI	1	
PR	92	10915311	LAS	1	
PR	92	14735312	ANL	1	
PR	94	9695405	ANL	1	
PR	95	4315407	ANL	1	
PR	96	1025410	NRD	1	
PR	96	6965411	MIT	1	
PR	96	16145412	USA	1	
PR	98	13275506	ANL	1	
PR	99	7305508	LAS	1	
PR	103	3235607	MCM	1	
PR	107	3255707	LAS	1	
PR	113	15895903	MTR	1	
PR	117	1866001	LRL	1	NOT IN CINDA
PR	119	16856009	LRL	1	
PR	119	20176009	MTR	1	
PR	121	2306100	YAL	1	
PR	126	6276204	ARK	1	
PR	126	11126205	WAS	1	
PR	126	15086205	LAS	1	
PR	130	14666305	ORL	1	
PR	131	8306307	WAS	1	
PR	131	17466308	MTR	1	
PR	134	12196400	ANL	1	NOT IN CINDA
PR	144	9796604	LAS	1	EXFOR12517 RES PARAMS ONLY
PR	144	9846604	NRD	1	
PR	145	9116605	LAS	1	
PR	147	8846607	ARK	1	
PR	154	11746700	LAS	1	
PR	161	11926709	ANL	1	

PR	172	12626808	NRD	1	
PR	172	12696808	NRD	1	
PR	173	11596809	NRD	1	
PR	179	11666903	MIS	1	
PR	179	11886903	DRL	1	
PR	182	12516906	LRL	1	
PR	188	18936912	NRD	1	
PR/B	133	8746402	ARK	1	
PR/B	134	10276406	MTS	1	
PR/B	137	9296502	LAS	1	
PR/B	138	3536504	MIT	1	
PR/B	139	3046507	NRD	1	
PR/B	139	15056509	LRL	1	
PR/B	145	1456600	CFC	1	NOT IN CINDA
PR/C	1	3127001	MIS	1	
PR/C	1	3167001	DRL	1	
PR/C	1	10447003	DRL	1	
PR/C	2	22897012	LRL	1	
PR/C	4	5057108	SRL	1	
PR/C	5	1717201	ARK	1	
PR/C	5	5517300	MCP	1	
PR/C	5	17257205	ANL	1	
PR/C	6	18217211	LRL	1	
PR/C	6	22117200	ANL	1	
PR/C	6	22527300	ANL	1	NOT IN CINDA
PR/C	8	14887300	SRL	1	
PR/C	10	7697400	MTS	1	
PR/C	10	18727411	LAS	1	
PR/C	11	26767500	ANL	1	NOT IN CINDA
PR/C	12	4137500	LAS	1	
PR/C	12	14787500	ANL	1	
PR/L	3	2745900		1	NOT IN CINDA
RCA	5	2236600	MCP	1	NOT IN CINDA
RCA	8	126700	ARK	1	NOT IN CINDA
RCA	11	516903	MIS	1	
RCA	12	1796912	MCP	1	NOT IN CINDA
RCA	15	1467100	MIS	1	NOT IN CINDA
RCA	16	667111	MIS	1	NOT IN CINDA
RCS	2	5101	MIT	1	NOT IN CINDA
RRL	15	3357300	CAN	1	
RSI	33	12586200		1	NOT IN CINDA
TID-24500		6801	MIS	1	
TID-5787		6000	LAS	1	
UCRL-10.673		6300	USA	1	NOT IN CINDA
UCRL-8926		5911	BRK	1	

---AREA 2---

65SALZBU	1	4156507	WUR	2	NOT IN CINDA
69VIENNA		7316907	WUR	2	EXFOR21496
69VIENNA		8036907	GRE	2	
69VIENNA		8916907	PAV	2	
71CANT		137110	GRE	2	SEE NP/A 189 556
71CANT		197110	FAR	2	NOT IN CINDA
73ROCH	2	957300	MMZ	2	EXFOR20521
AERE-R-4723		6409	HAR	2	EXFOR21464
AERE-R-6154		6908	HAR	2	
AERE-R-6555		7205	HAP	2	EXFOR20499 ?
AERE-R-6862		7205	HAR	2	EXFOR20499
ALVIN		7506	GRE	2	NOT IN CINDA
AWRE-O-49/61		6100	ALD	2	NOT IN CINDA
AWRE-O-58/61		6201	ALD	2	NOT IN CINDA
BOWLES		7006	HAR	2	NOT IN CINDA
CAVALLINI		7500	GRE	2	NOT IN CINDA
CHAUVIN		7309	GRE	2	FRNC-TH-470

CJC	43	24936509	OSL	2		
CRDUCH		7006	HAR	2		NOT IN CINDA
EN	15	2726804	MIL	2	EXFOR21483	
EN	20	6917300		2		NOT IN CINDA
HCA	52	22166912	WUP	2		NOT IN CINDA
JIN	1	2485510	HAR	2		
JIN	2	695602	OSL	2		
JIN	4	15700	HAR	2		
JIN	5	15700	HAR	2		
JIN	6	1815800	HAR	2		
JIN	11	1735909	OSL	2		
JIN	14	86007	ALD	2		
JIN	16	3586102	HAR	2		
JIN	24	2216203	HAR	2		
JIN	25	6156306	URP	2		
JIN	25	12136310	HAR	2	EXFOR21464	
JIN	29	8636703	KLN	2		
JIN	29	11896709	ISP	2		
JIN	30	896800	OSL	2		NOT IN CINDA
JIN	30	19556809	HAR	2		NOT IN CINDA
JIN	30	28736811	MOL	2		NOT IN CINDA
JIN	31	18736907	MNZ	2		
JIN	31	37396912	PAV	2		
JIN	32	7057000	AIH	2		NOT IN CINDA
JIN	32	17677006	MNZ	2		
JIN	32	31497011	MNZ	2		
JIN	32	37137012	MNZ	2		
JIN	33	32397100	KTO	2		NOT IN CINDA
JIN	33	36097111	HAR	2		NOT IN CINDA
JIN	34	17857200	MNZ	2		NOT IN CINDA
JIN	35	3537300	JAE	2		NOT IN CINDA
JIN	35	14077300	MNZ	2	EXFOR20521	
JIN	36	4957400	GRE	2		NOT IN CINDA
JIN	36	14537400	HAR	2	EXFOR20769	
JIN	37	11257500		2		
JIN	37	22477511	ANK	2		
JIN	38	3057600	UBE	2		NOT IN CINDA
JIN	38	3517602	WUR	2	EXFOR21554	
JIN	39	3837700	HAR	2	EXFOR20771	
JIN	39	7537700	MNZ	2	EXFOR20879	
JIN	39	11057700	UBE	2	EXFOR21553	
JNE	25	857102	ISP	2		
JPR	37	2417600	GRE	2		NOT IN CINDA
JRC	26	1077500	GRE	2	EXFOR21592	
KE	12	3806912	RDS	2		
KFK-1888		7400	KFK	2	EXFOR21558	
NC/A	11	7167200	ITY	2		NOT IN CINDA
NC/B	49		ITY	2		NOT IN CINDA
NP	27	1546109	HAR	2		
NP	84	496608	HAR	2		
NP/A	189	5567207	GRE	2	SEE CART 13	
NP/A	194	1407200	MOL	2		
NP/A	225	4617512	GRE	2		NOT IN CINDA
NP/A	263	1417600	JAE	2	EXFOR20589	
NP/A	282	1097700	GRE	2	EXFOR21549	
NSE	58	4147512	WUP	2	EXFOR21595	
NT	12	2267110	KFK	2		NOT IN CINDA
NUK	7	1696504	SGA	2		
PL	23	5836600	SRC	2		
PM	44	9005308	HAR	2		
PR	92	10725311	HAR	2		NOT IN CINDA
PR/C	14	18647600	ILL	2	EXFOR21605	
RCA	3	766410	DUR	2		
RCA	3	806410	DUR	2		
RCA	3	1186411	KUR	2		
RCA	5	2346607	KFK	2		NOT IN CINDA

RCA	6	166608	KEM	2	
RCA	6	766610	GER	2	NOT IN CINDA
RCA	7	956709	JAE	2	
RCA	7	1056709	MUM	2	
RCA	8	96709	KEM	2	NOT IN CINDA
RCA	8	1126711	MUR	2	
RCA	9	276805	TRD	2	
RCA	9	906807	KEM	2	
RCA	11	1086904	KEM	2	
RCA	12	436900	KEM	2	
RCA	12	666908	KEM	2	
RCA	12	1736912	DDU	2	
RCA	13	1677005	KEM	2	NOT IN CINDA
RCA	13	1817006	MUM	2	NOT IN CINDA
RCA	15	1137103	MUU	2	
RCA	16	1047100	KEM	2	NOT IN CINDA
RCA	17	187205	MUM	2	NOT IN CINDA
RCA	18	2027200	GER	2	NOT IN CINDA
RCA	21	2007400	URE	2	
RRL	3	17002	OSA	2	
ZN/A	11	9465611	MNZ	2	
ZP/A	257	1497500	GEL	2	NOT IN CINDA

---AREA 3---

65SALZBU	1	4396503	TRM	3	
69VIENNA		7416907	TRM	3	
73KIEV	3	3237300	KOS	3	EXFOR30267
CJP	53	7757500	KAT	3	
IA-	1128	636612	SOR	3	
JIN	25	4656305	TRM	3	
JIN	30	23056809	TRM	3	
JIN	35	17987300	SAH	3	NOT IN CINDA
JIN	38	21337600	SOR	3	EXFOR30365
NP/A	128	2196900	IBJ	3	EXFOR30320
NUK	9	436701	TRM	3	NOT IN CINDA
PL/B	25	2136708	KWA	3	
PR/A	198	2287200	TEL	3	NOT IN CINDA
PR/C	6	6187208	SOR	3	
PR/C	9	15067400	TRM	3	EXFOR30496
PR/C	15	3447700	TRM	3	EXFOR30508
RCA	19	907300	TRM	3	EXFOR30504

---AREA 4---

58GENEVA	15	4465809	CCP	4	
AE	3	115707	CCP	4	
AE	7	1445908	CCP	4	
AE	27	316900	FTI	4	EXFOR40243
AE	31	997100	RI	4	
AE	33	7097200	RI	4	
AE	34	3657300	CCP	4	EXFOR40205
AE	35	4097300	CCP	4	EXFOR40389
AE	36	667400	CCP	4	
AEC-TR-2435		5500	LEB	4	
AEC-TR-4665		6100	CCP	4	NOT IN CINDA
AEC-TR-4682		6000	CCP	4	
AEC-TR-4696		6111	RI	4	
JNE	6	1695700	CCP	4	
JNE	6	2605703	CCP	4	
JNE	9	465906	CCP	4	
JNE	9	1675906	CCP	4	
JNE	10	805907	CCP	4	NOT IN CINDA
PL/B	30	3326900	FTI	4	

RAK	2	7436000	CCP	4	
SJA	4	955801	CCP	4	
SJA	6	4296012	RI	4	
SJA	10	106111	CCP	4	
SNP	6	3316800	CCP	4	NOT IN CINDA
SNP	8	4046904	CCP	4	
SNP	11	6547000	TIL	4	
SNP	14	5287200	KUR	4	EXFOR40145
SRA	4	6316200	CCP	4	
SRA	12	4537000	CCP	4	NOT IN CINDA
SRA	12	4587000	CCP	4	NOT IN CINDA
YF	15	8607200	RI	4	
YF	17	4707300	KUR	4	EXFOR40193
YF	20	4617400	LIN	4	

---UNKNOWN---

NUC	18	1006000	?		NOT IN CINDA
OTHER		6403	?		NOT IN CINDA