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DUKE POWER

September 23, 1992

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D. C. 20555

Subject: Catawba Nuclear Station, Unit 1  
Docket No. 50-413  
Special Report  
End of Cycle 6 Refueling Outage  
15 Day Steam Generator Tube Inservice Inspection Report

Pursuant to Catawba Technical Specification 4.4.5.5, part a and d, the following information is submitted:

1. The following information is submitted regarding F\* tubes: (The attached lists identify the F\* tubes, their location, and the size of the degradation.)

<u>Steam Generator</u>	<u>Attachment</u>
A	1
B	2
C	3
D	4

2. The following quantities of tubes were removed from service or repaired:

<u>Steam Generator</u>	<u>Number of Tubes Plugged</u>	<u>Number of Tubes Repaired</u>
A	86	0
B	29	0
C	85	48
D	54	60

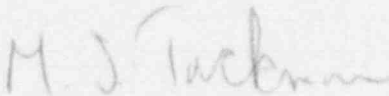
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U. S. Nuclear Regulatory Commission  
September 23, 1992  
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For further information, please contact Charles R. Lewis at (803) 831-3076.

Very truly yours,

A handwritten signature in dark ink, appearing to read "M. S. Tuckman". The signature is fluid and cursive, with the first name "M." and last name "Tuckman" clearly distinguishable.

M. S. Tuckman

CRL/SG15DAY.992

xc: S. D. Ebnetter  
Regional Administrator, Region II

R. E. Martin, ONRR

W. T. Orders  
Senior Resident Inspector, CNS

ATTACHMENT 1

Plant: Catawba Unit 1  
Outage: 7/92 RFO

Steam Generator: A

QUERY: ATTACHMENT 1 F\* TUBES

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT	LEG	TAPE	ANLST	PRB	COMMENTS
RES BOB	X	1	67	ID1	40	8.24	P 1	9 TE-HL	+ 15.07	9TH TSP	TE-HL	79	S1603	590
RES BOB	X	2	89	ID1	40	2.91	P 1	75 TE-HL	+ 18.48	9TH TSP	TE-HL	79	S1603	590
RES BOB	X	4	94	ID1	40	16.80	P 1	25 TE-HL	+ 7.22	9TH TSP	TE-HL	64	S7752	610
RES BOB	X	5	40	ID1	40	5.76	P 1	17 TE-HL	+ 11.72	9TH TSP	TE-HL	52	N6550	610
RES BOB	X	5	42	ID1	40	7.93	P 1	15 TE-HL	+ 6.21	9TH TSP	TE-HL	52	N6550	610
RES BOB	X	5	69	ID1	40	2.91	P 1	93 TE-HL	+ 12.98	9TH TSP	TE-HL	74	D4503	610
RES BOB	X			ID1	40	7.12	P 1	32 TE-HL	+ 7.93	9TH TSP	TE-HL	74	D4503	610
RES BOB	X	6	51	ID1	40	22.49	P 1	0 TIS-HL	+ 0.00	9TH TSP	TE-HL	57	B8589	610
RES BOB	X	6	94	ID1	40	6.78	P 1	28 TE-HL	+ 10.66	9TH TSP	TE-HL	64	S7752	610
RES BOB	X	8	68	ID1	40	3.24	P 1	28 TE-HL	+ 11.95	9TH TSP	TE-HL	74	D4503	610
RES BOB	X	10	46	ID1	40	1.97	P 1	35 TE-HL	+ 8.22	9TH TSP	TE-HL	52	N6550	610
RES BOB	X	15	87	ID1	40	2.81	P 1	114 TE-HL	+ 12.26	9TH TSP	TE-HL	67	S1603	610
RES BOB	X	20	78	ID1	40	9.29	P 1	18 TE-HL	+ 13.78	9TH TSP	TE-HL	70	S1603	610
RES BOB	X	21	58	ID1	40	3.36	P 1	41 TE-HL	+ 14.41	9TH TSP	TE-HL	78	M1384	610
RES BOB	X	23	58	ID1	40	3.26	P 1	40 TE-HL	+ 9.31	9TH TSP	TE-HL	78	M1384	610
RES BOB	X	27	45	ID1	40	20.06	P 1	22 TE-HL	+ 16.04	9TH TSP	TE-HL	54	D3162	610
RES BOB	X	30	100	ID1	40	2.21	P 1	23 TE-HL	+ 9.44	9TH TSP	TE-HL	62	H7791	610
RES BOB	X	33	55	ID1	40	2.57	P 1	38 TE-HL	+ 9.00	9TH TSP	TE-HL	58	F3453	610
RES BOB	X	36	70	ID1	40	16.48	P 1	20 TE-HL	+ 4.27	9TH TSP	TE-HL	74	T6956	610
RES BOB	X	38	47	ID1	40	1.30	P 1	79 TE-HL	+ 3.30	9TH TSP	TE-HL	55	F3453	610
RES BOB	X	39	44	ID1	40	1.98	P 1	48 TE-HL	+ 4.96	9TH TSP	TE-HL	54	D3162	610
RES BOB	X	39	84	ID1	40	4.03	P 1	23 TE-HL	+ 4.48	9TH TSP	TE-HL	68	F3453	610
RES BOB	X	47	47	ID1	40	1.28	P 1	67 TE-HL	+ 3.25	9TH TSP	TE-HL	55	F3453	610

TOTAL TUBES FOUND = 22  
TOTAL INDICATIONS FOUND = 23  
TOTAL TUBES IN INPUT FILE = 4674

\* = F\* Tube

Plant: Catawba Unit 1  
Outage: 7/92 RFOU

Steam Generator: A

QUERY: ATTACHMENT 1 F\* TUBES

TEST	KOW	COL	IND	XTW	VOLTS	CHN	DEG	LOCATION	EXTENT	LEG	TAPE	ANLST	PRB	COMMENTS	
H/L TS	1	55	ID1	40	0.04		0	TTS-HL	-	0.07	1ST TSP	TE-HL	26	T9093	610
H/L TS	2	44	ID1	40	0.20	1	0	TTS-HL	-	0.17	1ST TSP	TE-HL	18	D1756	610
H/L TS			ID1	40	0.16	1	0	TTS-HL	-	0.18	1ST TSP	TE-HL	18	D1756	610
H/L TS	2	62	ID1	40	0.16	1	0	TTS-HL	+	0.07	1ST TSP	TE-HL	45	D4825	610
H/L TS	*3	89	ID1	40	0.32		0	TTS-HL	-	3.22	1ST TSP	TE-HL	34	J1978	610
H/L TS	3	54	ID1	40	0.20		0	TTS-HL	+	0.04	1ST TSP	TE-HL	24	T9093	610
H/L TS	4	49	ID1	40	0.16	1	0	TTS-HL	-	0.02	1ST TSP	TE-HL	21	T9093	610
H/L TS			ID1	40	0.16	1	0	TTS-HL	-	0.06	1ST TSP	TE-HL	21	T9093	610
H/L TS	4	103	ID1	40	0.20	1	0	TTS-HL	-	3.06	1ST TSP	TE-HL	29	H7791	610
H/L TS	5	36	ID1	40	0.04	1	0	TTS-HL	-	1.29	1ST TSP	TE-HL	48	L5914	610
H/L TS	5	41	ID1	40	0.12	1	0	TTS-HL	+	0.00	1ST TSP	TE-HL	17	K7060	610
H/L TS	5	69	ID1	40	0.16		0	TTS-HL	+	0.00	1ST TSP	TE-HL	50	S1603	610
H/L TS	5	71	ID1	40	0.16	1	0	TTS-HL	-	2.09	1ST TSP	TE-HL	42	M7006	610
H/L TS	5	87	ID1	40	0.24	1	0	TTS-HL	+	0.06	1ST TSP	TE-HL	35	R1509	610
H/L TS			ID1	40	0.20	1	0	TTS-HL	+	0.06	1ST TSP	TE-HL	35	R1509	610
H/L TS			ID1	40	0.16	1	0	TTS-HL	+	0.02	1ST TSP	TE-HL	35	R1509	610
H/L TS			ID1	40	0.12	1	0	TTS-HL	-	0.02	1ST TSP	TE-HL	35	R1509	610
H/L TS			ID1	40	0.12	1	0	TTS-HL	-	0.02	1ST TSP	TE-HL	35	R1509	610
H/L TS			ID1	40	0.08	1	0	TTS-HL	-	0.02	1ST TSP	TE-HL	35	R1509	610
H/L TS	5	90	ID1	40	0.20		0	TTS-HL	+	0.04	1ST TSP	TE-HL	33	W4897	610
H/L TS	6	51	ID1	40	0.16		0	TTS-HL	+	0.08	1ST TSP	TE-HL	22	W4897	610
H/L TS	6	53	ID1	40	0.16		0	TTS-HL	+	0.00	1ST TSP	TE-HL	23	T9093	610
H/L TS	6	58	ID1	40	0.20	1	0	TTS-HL	+	0.04	1ST TSP	TE-HL	47	L5914	610
H/L TS			ID1	40	0.16	1	0	TTS-HL	+	0.00	1ST TSP	TE-HL	47	L5914	610
H/L TS	*6	80	ID1	40	0.32	1	0	TTS-HL	-	4.18	1ST TSP	TE-HL	50	M0814	610
H/L TS	6	91	ID1	40	0.24		0	TTS-HL	-	1.44	1ST TSP	TE-HL	33	W4897	610
H/L TS			ID1	40	0.24		0	TTS-HL	-	1.44	1ST TSP	TE-HL	33	W4897	610
H/L TS			ID1	40	0.35		0	TTS-HL	-	1.48	1ST TSP	TE-HL	33	W4897	610
H/L TS			ID1	40	0.20		0	TTS-HL	-	1.52	1ST TSP	TE-HL	33	W4897	610
H/L TS	8	106	ID1	40	0.24	1	0	TTS-HL	-	2.79	1ST TSP	TE-HL	27	T9093	610
H/L TS			ID1	40	0.20	1	0	TTS-HL	-	2.79	1ST TSP	TE-HL	27	T9093	610
H/L TS			ID1	40	0.24	1	0	TTS-HL	-	2.79	1ST TSP	TE-HL	27	T9093	610
H/L TS			ID1	40	0.16	1	0	TTS-HL	-	2.79	1ST TSP	TE-HL	27	T9093	610
H/L TS			ID1	40	0.16	1	0	TTS-HL	-	2.83	1ST TSP	TE-HL	27	T9093	610
H/L TS	12	96	ID1	40	0.16		0	TTS-HL	-	2.13	1ST TSP	TE-HL	31	W4897	610
H/L TS	13	54	ID1	40	0.28		0	TTS-HL	-	1.94	1ST TSP	TE-HL	24	T9093	610
H/L TS	*15	91	ID1	40	0.20		0	TTS-HL	-	3.22	1ST TSP	TE-HL	33	W4897	610
H/L TS			ID1	40	0.20		0	TTS-HL	-	3.22	1ST TSP	TE-HL	33	W4897	610
H/L TS	18	75	ID1	40	0.16		0	TTS-HL	-	0.11	1ST TSP	TE-HL	40	E2505	610
H/L TS	21	63	ID1	40	0.17	1	0	TTS-HL	+	0.04	1ST TSP	TE-HL	45	D4825	610
H/L TS	26	58	ID1	40	0.12	1	0	TTS-HL	-	1.14	1ST TSP	TE-HL	47	L5914	610
H/L TS	27	69	ID1	40	0.24	1	0	TTS-HL	-	1.88	1ST TSP	TE-HL	42	M7006	610
H/L TS			ID1	40	0.16	1	0	TTS-HL	-	1.88	1ST TSP	TE-HL	42	M7006	610
H/L TS	29	46	ID1	40	0.16	1	0	TTS-HL	-	2.80	1ST TSP	TE-HL	20	T9093	610
H/L TS	*32	78	ID1	40	0.16		0	TTS-HL	-	4.05	1ST TSP	TE-HL	38	M3442	610
H/L TS	34	60	ID1	40	0.55	1	0	TTS-HL	-	2.66	1ST TSP	TE-HL	46	F6623	610
H/L TS	37	70	ID1	40	0.20	1	0	TTS-HL	-	2.18	1ST TSP	TE-HL	42	M7006	610
H/L TS	40	54	ID1	40	0.16		0	TTS-HL	-	1.87	1ST TSP	TE-HL	24	T9093	610
H/L TS	40	86	ID1	40	0.24	1	0	TTS-HL	+	0.18	1ST TSP	TE-HL	35	K9933	610

TOTAL TUBES FOUND = 32  
TOTAL INDICATIONS FOUND = 49  
TOTAL TUBES IN INPUT FILE = 4674

\* = F\* Tube

ATTACHMENT 2



Plant: Catawba Unit 1  
Outage: 7/92 RFD

Steam Generator: B

QUERY: ATTACHMENT 2 F\* TUBES

TEST	ROW	COL	IND	XTW	VOLTS	CHN	DEG	LOCATION	EXTENT	LEG	TAPE	ANLST	PRB	COMMENTS
RES BOB	*	11	27	ID1	40	9.65	P 1	30 TE-HL	+	16.19	9TH TSP	TE-HL	31	C3556 610
RES BOB	*	16	11	ID1	40	8.11	P 1	16 TE-HL	+	16.37	9TH TSP	TE-HL	25	E0864 610
RES BOB	*	29	34	ID1	40	12.49	P 1	23 TE-HL	+	12.51	9TH TSP	TE-HL	34	M0155 610
RES BOB	*	32	67	ID1	40	1.17	P 1	52 TE-HL	+	9.02	9TH TSP	TE-HL	17	H8551 610
RES BOB	*	39	36	ID1	40	0.93	P 1	45 TE-HL	+	17.11	9TH TSP	TE-HL	34	S7752 610

TOTAL TUBES FOUND = 5  
TOTAL INDICATIONS FOUND = 5  
TOTAL TUBES IN INPUT FILE = 4674

\* = F\* Tube

ATTACHMENT 3



Plant: Catawba Unit 1  
Outage: 7/92 RFO

Steam Generator: C

QUERY: ATTACHMENT 3 F\* TUBES

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT	LEG	TAPE	ANLST	PRB	COMMENTS
RES BOB	11	82	ID1	40	3.45	P 1	156	TE-HL	+ 17.09	9TH TSP	TE-HL	30	K7060	610
RES BOB	* 11	106	ID1	40	15.62	P 1	15	TE-HL	+ 14.13	9TH TSP	TE-HL	49	M1384	510
RES BOB	* 13	89	ID1	40	4.07	P 1	150	TE-HL	+ 5.25	9TH TSP	TE-HL	27	D3162	610
RES BOB	* 14	86	ID1	40	2.08	P 1	145	TE-HL	+ 17.07	9TH TSP	TE-HL	28	D8021	610
RES BOB	* 17	58	ID1	40	3.69	P 1	151	TE-HL	+ 13.55	9TH TSP	TE-HL	41	H4495	610
RES BOB			ID1	40	2.34	P 1	87	TE-HL	+ 8.51	9TH TSP	TE-HL	41	H4495	610
RES BOB	* 19	48	ID1	40	12.09	P 1	22	TE-HL	+ 15.95	9TH TSP	TE-HL	17	H7791	610
RES BOB	19	106	ID1	40	2.63	P 1	51	TE-CL	+ 20.12	5TH TSP	TE-CL	69	D4503	630
RES BOB	* 20	48	ID1	40	3.11	P 3	70	TE-HL	+ 12.14	9TH TSP	TE-HL	17	D4576	610
RES BOB	* 23	48	ID1	40	3.63	P 1	32	TE-HL	+ 14.03	9TH TSP	TE-HL	17	M7006	610
RES BOB	* 23	77	ID1	40	5.39	P 1	12	TE-HL	+ 15.23	9TH TSP	TE-HL	32	M6078	610
RES BOB	* 23	103	ID1	40	16.08	P 1	8	TE-HL	+ 11.50	9TH TSP	TE-HL	22	S1603	610
RES BOB	* 25	77	ID1	40	13.67	P 1	18	TE-HL	+ 12.55	9TH TSP	TE-HL	32	M6078	610
RES BOB			ID1	71	12.67	P 1	40	TE-HL	+ 8.64	9TH TSP	TE-HL	32	M6078	610
RES BOB	* 25	78	ID1	40	10.65	P 1	13	TE-HL	+ 15.15	9TH TSP	TE-HL	32	C3340	610
RES BOB	* 27	90	ID1	40	7.84	P 1	15	TE-HL	+ 7.42	9TH TSP	TE-HL	27	B7702	610
RES BOB	* 31	103	ID1	40	3.60	P 1	166	TE-HL	+ 15.69	9TH TSP	TE-HL	22	S1603	610
RES BOB	* 49	73	ID1	40	15.67	P 1	20	TE-HL	+ 10.25	9TH TSP	TE-HL	34	S1603	610

TOTAL TUBES FOUND = 16  
TOTAL INDICATIONS FOUND = 18  
TOTAL TUBES IN INPUT FILE = 4674

\* = F\* Tube

Plant: Catawba Unit 1  
Outage: 7/92 RFOU

Steam Generator: C

QUERY: ATTACHMENT 3 F\* TUBES

TEST	ROW	COL	IND	XTW	VOLTS	CHN	DEG	LOCATION	EXTENT	LEG	TAPE	ANLST	PRB	COMMENTS
H/L TS	1	96	ID1	40	0.08	1	0	TTS-HL -	0.97	1ST TSP	TE-HL	31	G4943	610
H/L TS	11	82	ID1	40	0.16	1	0	TTS-HL -	1.69	1ST TSP	TE-HL	38	F3453	610
H/L TS			ID1	40	0.16	1	0	TTS-HL -	3.96	1ST TSP	TE-HL	38	F3453	610
H/L TS			ID1	40	0.16	1	0	TTS-HL -	3.96	1ST TSP	TE-HL	38	F3453	610
H/L TS	13	104	ID1	40	0.14	1	0	TTS-HL -	1.93	1ST TSP	TE-HL	20	B4260	590
H/L TS	* 14	86	ID1	40	0.12	1	0	TTS-HL -	4.23	1ST TSP	TE-HL	36	F3453	610
H/L TS			ID1	40	0.12	1	0	TTS-HL -	4.27	1ST TSP	TE-HL	36	F3453	610
H/L TS			ID1	40	0.08	1	0	TTS-HL -	4.27	1ST TSP	TE-HL	36	F3453	610
H/L TS			ID1	40	0.08	1	0	TTS-HL -	4.27	1ST TSP	TE-HL	36	F3453	610
H/L TS	15	67	ID1	40	0.20	1	0	TTS-HL -	0.83	1ST TSP	TE-HL	51	H7791	610
C/L TS	16	62	ID1	40	0.24	1	0	TTS-CL +	0.06	22ND TSP	TE-CL	49	H8551	610
H/L TS	19	86	ID1	40	0.20	1	0	TTS-HL -	1.97	1ST TSP	TE-HL	36	F6623	610
H/L TS	23	98	ID1	40	0.32	4	0	TTS-HL -	2.76	1ST TSP	TE-HL	31	G4943	610
H/L TS	30	91	ID1	40	0.16	1	0	TTS-HL +	0.16	1ST TSP	TE-HL	33	D4503	610
H/L TS	32	93	ID1	40	0.24	1	0	TTS-HL -	3.11	1ST TSP	TE-HL	33	B4~0	610
H/L TS	43	75	ID1	40	0.24	1	0	TTS-HL -	2.94	1ST TSP	TE-HL	50	H7791	610
H/L TS	43	80	ID1	40	0.12	1	0	TTS-HL +	0.04	1ST TSP	TE-HL	38	B4260	610
H/L TS	43	92	ID1	40	0.16	1	0	TTS-HL +	0.12	1ST TSP	TE-HL	33	B4260	610

TOTAL TUBES FOUND = 13  
TOTAL INDICATIONS FOUND = 18  
TOTAL TUBES IN INPUT FILE = 4674

\* = F\* Tubes

ATTACHMENT 4

Plant: Cafawoa Unit 1  
Outage: 7/92 RFO

Steam Generator: D

QUERY: ATTACHMENT 4 F\* TUBES

TEST	ROW	COL	IND	XIW	VOLTS	CHN	DEG	LOCATION	EXTENT	LEG	TAPE	AMLST	PRB	COMMENTS
RES BOB	*	1	20	ID1	40	13.96	P 1	14 TE-HL	+	11.55	9TH TSP	TE-HL	81	BB090 590
RES BOB	*	2	112	ID1	40	1.82	P 1	83 TE-HL	+	12.33	9TH TSP	TE-HL	80	W1424 590
RES BOB	*	4	26	ID1	40	6.64	P 1	18 TE-HL	+	6.22	9TH TSP	TE-HL	65	S9098 610
RES BOB	*	4	40	ID1	40	7.35	P 1	11 TE-HL	+	15.70	8TH TSP	TE-HL	81	R5555 590
RES BOB	*	5	58	ID1	40	9.01	P 1	9 TE-HL	+	9.16	9TH TSP	TE-HL	80	W1424 590
RES BOB	*	6	6	ID1	40	9.00	P 1	24 TE-HL	+	6.26	9TH TSP	TE-HL	59	BB090 610
RES BOB	*	6	51	ID1	40	9.03	P 1	24 TE-HL	+	15.34	9TH TSP	TE-HL	77	F9284 610
RES BOB	*	6	95	ID1	40	2.40	P 1	24 TE-HL	+	14.94	9TH TSP	TE-HL	43	M1384 610
RES BOB	*	8	96	ID1	40	6.66	P 1	13 TE-HL	+	8.99	9TH TSP	TE-HL	43	M1384 610
RES BOB	*	16	79	ID1	40	9.39	P 1	19 TE-HL	+	14.36	9TH TSP	TE-HL	49	W1424 610
RES BOB	*	17	65	ID1	40	9.53	P 1	18 TE-HL	+	11.91	9TH TSP	TE-HL	55	F6623 610
RES BOB	*	17	73	ID1	40	9.02	P 1	18 TE-HL	+	10.58	9TH TSP	TE-HL	52	W9213 610
RES BOB	*			ID1	40	24.51	P 1	33 TE-HL	+	12.43	9TH TSP	TE-HL	52	W9213 610
RES BOB	*	17	81	ID1	40	11.75	P 1	29 TE-HL	+	17.39	9TH TSP	TE-HL	48	M3442 610
RES BOB	*	17	110	ID1	40	2.11	P 1	32 TE-HL	+	6.30	9TH TSP	TE-HL	39	D1756 610
RES BOB	*	18	70	ID1	40	7.70	P 1	15 TE-HL	+	12.26	9TH TSP	TE-HL	53	H7791 610
RES BOB	*	19	74	ID1	40	4.59	P 1	16 TE-HL	+	3.54	9TH TSP	TE-HL	52	W1424 610
RES BOB	*			ID1	40	3.98	P 1	15 TE-HL	+	2.49	9TH TSP	TE-HL	52	W1424 610
RES BOB	*	20	30	ID1	40	2.45	P 1	155 TE-HL	+	11.28	9TH TSP	TE-HL	67	S2748 610
RES BOB	*	20	108	ID1	40	2.73	P 1	31 TE-HL	+	3.31	9TH TSP	TE-HL	39	F3453 610
RES BOB	*	21	34	ID1	40	5.06	P 1	151 TE-HL	+	15.14	9TH TSP	TE-HL	69	W1424 610
RES BOB	*	22	74	ID1	40	13.00	P 1	26 TE-HL	+	4.78	9TH TSP	TE-HL	52	W1424 610
RES BOB	*	27	36	ID1	40	8.11	P 5	15 TE-HL	+	17.20	9TH TSP	TE-HL	70	S9098 610
RES BOB	*	37	60	ID1	40	8.00	P 1	10 TE-HL	+	12.53	9TH TSP	TE-HL	83	S8046 610
RES BOB	*	37	68	ID1	40	1.41	P 1	40 TE-HL	+	9.20	10TH TSP	TE-HL	54	N6550 610
RES BOB	*	41	68	ID1	40	1.87	P 1	35 TE-HL	+	17.97	9TH TSP	TE-HL	54	N6550 610
RES BOB	*	41	89	ID1	40	1.32	P 1	53 TE-HL	+	4.76	9TH TSP	TE-HL	46	F3453 610
RES BOB	*	42	28	ID1	40	2.59	P 1	13 TE-HL	+	20.31	9TH TSP	TE-HL	66	M3442 610
RES BOB	*	47	28	ID1	40	1.43	P 1	131 TE-HL	+	10.09	9TH TSP	TE-HL	66	M3442 610
RES BOB	*	47	49	ID1	40	5.13	P 1	17 TE-HL	+	6.31	9TH TSP	TE-HL	86	W1424 590
RES BOB	*	47	86	ID1	40	2.46	P 1	38 TE-HL	+	12.24	9TH TSP	TE-HL	46	E2505 610
RES BOB	*	48	42	ID1	40	6.60	P 1	16 TE-HL	+	12.36	10TH TSP	TE-HL	72	W1424 610

TOTAL TUBES FOUND = 30  
TOTAL INDICATIONS FOUND = 32  
TOTAL TUBES IN INPUT FILE = 4674

\* = F\* Tube