Duke Energy®

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February 2, 2009

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555-0001

SUBJECT: Duke Energy Carolinas, LLC
McGuire Nuclear Station
Docket No. 50-369
Steam Generator In-Service Inspection Report
Unit 1, End of Cycle (EOC) 19

Pursuant to ASME Section XI and McGuire Technical Specification 5.6.8, Duke Energy hereby submits the attached Steam Generator In-Service Inspection Summary Report for the McGuire Unit 1 EOC-19 refueling outage.

Questions regarding the attached report should be directed to Mitch Hatley at (704) 875-5456 or Kay Crane at (704) 875-4306.

H D Brewer for

Bruce Hamilton

A047
NRR

Mr. L. A. Reyes, Regional Administrator
U.S. Nuclear Regulatory Commission, Region II
Atlanta Federal Center
61 Forsyth St., SWW, Suite 23T85
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Mr. Jon H. Thompson
NRC Project Manager
U. S. Nuclear Regulatory Commission
Mail Stop 8G9A
Washington, DC 20555-0001

Joe Brady
NRC Senior Resident Inspector
McGuire Nuclear Station

Steam Generator
In-service Inspection Summary Report

McGuire Nuclear Station
Unit 1 EOC 19
Fall Outage 2008

Location: McGuire Nuclear Station, 12700 Hagers Ferry Road Huntersville, N.C. 28078-9340

NRC Docket No. 50-369
National Board No. 44

Commercial Service Date: December 1, 1981

Owner: Duke Energy Carolinas, LLC
526 South Church St.
Charlotte, N.C. 28202

Revision 0

Prepared By: _____ Date: 1/20/09

Checked By: _____ Date: 1/20/09

Approved By: _____ Date: 1/21/09

Document Completion Date: 1/28/09

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Original	McGuire Nuclear Station Document Control Master File MC 1201.35
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2	Hartford Steam Boiler Inspection and Insurance Corporation (AlA)
3	State of North Carolina Department of Labor C/o J. M. Givens, II

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner: Duke Energy Corporation, 526 S. Church St.. Charlotte, NC 28201-1006
(Name and Address of Owner)

2. Plant: McGuire Nuclear Station, 12700 Hagers Ferry Rd, Huntersville, NC 28078-9340
(Name and Address of Plant)

3. Plant Unit: 1

4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date: December 1, 1981

6. National Board Number for Unit 44

7. Components Inspected:

Component	Manufacturer	Manufacturer Serial No.	State or Province No.	National Board No.
Steam Generator 1A	BWI	7701-04	NC-302668	157
Steam Generator 1B	BWI	7693-01	NC-302669	146
Steam Generator 1C	BWI	7701-03	NC-302670	155
Steam Generator 1D	BWI	7701-02	NC-302671	154

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is $8^1/_2$ in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (Back)

8. Examination Dates May 28th, 2007 to November 12th, 2008

9. Inspection Period Identification: Second Period

10. Inspection Interval Identification: Third Interval

11. Applicable Edition of Section XI 1998 Addenda 2000

12. Date/Revision of Inspection Plan: August 19, 2008 Revision 2

13. Abstract of Examinations and Test. Reference attached response to technical specification 5.6.8 Steam Generator Tube Inspection Report.

14. Abstract of Results of Examination and Tests. Reference attached response to technical specification 5.6.8 Steam Generator Tube Inspection Report.

15. Abstract of Corrective Measures. Reference attached response to technical specification 5.6.8 Steam Generator Tube Inspection Report.

We certify that a) the statements made in this report are correct b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) NA Expiration Date NA

Date 1-26 20 09 Signed Duke Energy Corp. By
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of NC employed by *The Hartford Steam Boiler Inspection & Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 5-28-2007 to 11-12-2008, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in the Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, test, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Jerome F. Swan Commissions NC1524 N, I
Inspector's Signature National Board, State, Province, and Endorsements

Date 1-28 - 20 09

* The Hartford Steam Boiler Inspection & Insurance Company of Connecticut
200 Ashford Center North
Suite 205
Atlanta, GA. 30338

McGuire 1 EOC 19 Steam Generator Tube Inspection Report

Pursuant to ASME Section XI and McGuire Technical Specification 5.6.8 the following information is provided:

a. The scope of inspections performed on each SG

Iinspection scope included full length data acquisition and bobbin coil data analysis on all four (4) steam generators as follows.

1) 100% of all tubes in each SG.

Special interest inspection scope included data acquisition and array data analysis as follows:

1) Special interest based on new bobbin calls (new wear indications, all bobbin "I" codes, and some miscellaneous codes)
2) Periphery tubes 5 rows deep (Top of Tube Sheet both Hot Leg and Cold Leg to first support) in all four (4) steam generators (Outer perimeter and open lane)
3) New dent indications
4) Bounding inspections one tube around all PLP indications confirmed with array
5) All tubes with previous loose part indications or locations with loose parts left in-service.

Plug inspection scope was as follows:

1) Visual inspection of all plugs,

b. Active degradation mechanisms found

Active degradation found in all four (4) steam generators include wear at support structures and wear from loose parts.

c. Non-destructive examination techniques utilized for each degradation mechanism

Bobbin was used to detect wear at support structures. Bobbin and array were used to detect wear from loose objects.

d. Location, orientation (if linear), and measured sizes (if available) of service induced indications

The complete listing for service induced indications is referenced in attachment #1 .

e. **Number of tubes plugged during the inspection outage for each active degradation mechanism**

In the 1B SG, tube R 104-C107 was preventively plugged due to the presence of a foreign object and tube R 116-C75 was plugged due to a 27% through wall wear indication due to fan bar wear.

f. **The total number and percentage of tubes plugged to date**

Tubes Plugged					
Steam Generator	A	B	C	D	Total
Prior to 1EOC19	2	2	5	4	12
1EOC19	0	2	0	0	2
Total	2	4	5	4	15
% Plugged	0.03%	0.06%	0.075%	0.06%	0.056%

g. **The results of condition monitoring, including the results of tube pulls and in-situ pressure testing**

An NDE maximum depth call of 54% TW or less is sufficient to demonstrate a minimum degraded tube burst pressure of 3ΔP at 0.95 probability with 50% confidence. The worst case depth call observed during the McGuire 1EOC19 inspection for wear at structures was 27% TW. The worst case depth call observed during the McGuire 1EOC19 inspection for general volumetric degradation was 33% TW. Therefore, condition monitoring structural integrity has been demonstrated. Since the burst pressure equation treats though-wall tearing as coincident with burst, demonstration of structural integrity also demonstrates leakage integrity at the lower differential pressure of a postulated steam line break accident. No in-situ testing was required or performed. No tube pulls were performed.

h. **The effective plugging percentage for all plugging in each SG**

The effective plugging percentage for each of the McGuire Unit 1 Steam Generators is identical to those shown in section (f) above.

Attachment #1 Location, orientation, and measured sizes of service induced indications

QUERY: QueryM

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION			EXT	EXT	UTIL 1	UTIL 2	CAL #	LEG	PROBE	SCOPE
37	68	0.74	99	22	VOL		FB5	-1.18		FB5	FB5	WAR		802	HOT	560XP	Special Interest E
		0.23	101	P2	TWD	12	FB5	-0.63		TEC	TEH	WAR		507	HOT	560UL	Bobbin Exam
43	68	0.24	92	P2	TWD	13	FB5	-1.04		TEC	TEH	WAR		501	HOT	560UL	Bobbin Exam
45	60	0.31	79	P2	TWD	11	FB4	+1.10		TEC	TEH	WAR		502	HOT	560UL	Bobbin Exam
47	78	0.28	92	P2	TWD	11	FB5	-0.96		TEC	TEH	WAR		523	HOT	560UL	Bobbin Exam
49	60	0.19	84	P2	TWD	7	03H	-1.57		TEC	TEH	WAR		502	HOT	560UL	Bobbin Exam
		0.43	92	190	VOL		03H	-1.51		03H	03H	WAR		801	HOT	560XP	Special Interest E
50	87	0.51	113	18	VOL		FB6	+0.85		FB6	FB6	WAR		802	HOT	560XP	Special Interest E
		0.14	127	P2	TWD	6	FB6	+1.44		TEC	TEH	WAR		523	HOT	560UL	Bobbin Exam
50	91	0.83	82	82	VOL		FB2	+1.40		FB2	FB2	WAR		801	HOT	560XP	Special Interest E
		0.11	72	P2	TWD	5	FB2	+0.75		TEC	TEH	WAR		523	HOT	560UL	Bobbin Exam
50	93	0.40	106	186	VOL		FB4	+0.77		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.07	39	P2	TWD	3	FB4	+0.93		TEC	TEH	WAR		523	HOT	560UL	Bobbin Exam
50	95	0.28	106	18	VOL		FB4	+1.29		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.08	82	P2	TWD	3	FB4	+1.20		TEC	TEH	WAR		523	HOT	560UL	Bobbin Exam
53	84	0.32	82	174	VOL		FB5	+0.82		FB5	FB5	WAR		802	HOT	560XP	Special Interest E
		0.22	93	P2	TWD	11	FB5	+1.40		TEC	TEH	WAR		522	HOT	560UL	Bobbin Exam
55	64	0.08	62	P2	TWD	5	FB3	+0.96		TEC	TEH	WAR		501	HOT	560UL	Bobbin Exam
		0.42	112	10	VOL		FB3	+0.93		FB3	FB3	WAR		801	HOT	560XP	Special Interest E
55	88	0.12	59	P2	TWD	5	FB3	-1.87		TEC	TEH	WAR		523	HOT	560UL	Bobbin Exam
56	89	0.37	151	6	VOL		FB4	-0.69		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.16	103	P2	TWD	8	FB4	-1.20		TEC	TEH	WAR		522	HOT	560UL	Bobbin Exam
58	71	0.27	87	P2	TWD	13	FB6	+1.03		TEC	TEH	WAR		540	HOT	560UL	Bobbin Exam
		0.85	98	174	VOL		FB6	+0.90		FB6	FB6	WAR		802	HOT	560XP	Special Interest E
58	101	0.27	102	6	VOL		FB4	-1.02		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.12	83	P2	TWD	5	FB4	-1.25		TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
60	83	0.26	96	178	VOL		FB4	-0.85		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.09	117	P2	TWD	5	FB4	-1.29		TEC	TEH	WAR		522	HOT	560UL	Bobbin Exam
60	89	0.85	105	190	VOL		FB5	+1.31		FB5	FB5	WAR		802	HOT	560XP	Special Interest E
		0.15	68	P2	TWD	8	FB5	+1.44		TEC	TEH	WAR		522	HOT	560UL	Bobbin Exam
61	54	0.08	115	P2	TWD	4	FB4	+1.41		TEC	TEH	WAR		503	HOT	560UL	Bobbin Exam
		0.19	96	190	VOL		FB4	+0.93		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
63	110	0.46	128	6	VOL		FB4	+1.21		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.09	117	P2	TWD	5	FB4	+0.92		TEC	TEH	WAR		526	HOT	560UL	Bobbin Exam
64	97	0.26	118	174	VOL		FB4	-0.99		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.07	122	P2	TWD	4	FB4	-1.02		TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
69	72	0.27	103	P2	TWD	10	FB4	-0.63		TEC	TEH	WAR		502	HOT	560UL	Bobbin Exam
		0.81	112	170	VOL		FB4	-0.76		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
70	63	0.10	61	P2	TWD	6	FB3	+0.44		TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
70	73	0.19	89	P2	TWD	8	FB4	+1.40		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
		0.89	110	190	VOL		FB4	+1.34		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
72	53	0.19	108	P2	TWD	9	FB5	+1.51		TEC	TEH	WAR		509	HOT	560UL	Bobbin Exam
72	63	0.19	110	P2	TWD	9	FB5	+1.24		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.32	84	22	VOL		FB5	+1.37		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
72	75	0.26	97	P2	TWD	10	FB4	+1.61		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
72	101	0.31	105	178	VOL		FB4	-1.16		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.07	117	P2	TWD	3	FB4	-1.26		TEC	TEH	WAR		518	HOT	560UL	Bobbin Exam
74	71	0.13	113	P2	TWD	7	FB5	+0.63		TEC	TEH	WAR		513	HOT	560UL	Bobbin Exam
		0.14	122	P2	TWD	7	FB4	+1.55		TEC	TEH	WAR		513	HOT	560UL	Bobbin Exam
74	103	0.11	79	P2	TWD	5	FB5	+0.57		TEC	TEH	WAR		520	HOT	560UL	Bobbin Exam
77	20	1.33	164	174	VOL		TSC	+0.24		01C	TSC	LPI		3	COLD	560XP	TTS Array Exam
		0.48	114	174	TWD	11	TSC	-0.00	TO+0.27	01C	TSC	0.28	0.27	3	COLD	560XP	TTS Array Exam
77	68	0.24	114	P2	TWD	9	FB4	+1.66		TEC	TEH	WAR		512	HOT	560UL	Bobbin Exam
77	74	0.25	110	P2	TWD	10	FB5	-1.16		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
		0.51	62	Q16	VOL		FB5	-1.34		FB5	FB5	WAR		801	HOT	560XP	Special Interest E

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION			EXT	EXT	UTIL 1	UTIL 2	CAL #	LEG	PROBE	SCOPE
77	84	0.41	113	186	VOL		FB4	-1.21		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.09	53	P2	TWD	4	FB4	-1.25		TEC	TEH	WAR		516	HOT	560UL	Bobbin Exam
78	19	0.27	79	174	TWD	6	TSC	+0.76	TO+0.98	01C	TSC	0.35	0.22	3	COLD	560XP	TTS Array Exam
		0.31	90	174	VOL		TSC	+0.92		01C	TSC	LPI		3	COLD	560XP	TTS Array Exam
		0.27	127	3	NQI		TSC	+0.80		TEC	TEH			507	HOT	560UL	Bobbin Exam
79	20	0.33	35	190	TWD	7	TSC	+0.19	TO+0.43	01C	TSC	0.21	0.24	3	COLD	560XP	TTS Array Exam
		0.63	32	190	VOL		TSC	+0.37		01C	TSC	LPI		3	COLD	560XP	TTS Array Exam
79	60	0.23	91	P2	TWD	11	FB4	-0.45		TEC	TEH	WAR		509	HOT	560UL	Bobbin Exam
79	62	0.23	91	P2	TWD	11	FB4	+0.95		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.23	126	P2	TWD	11	FB4	-0.71		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
80	21	0.65	95	3	NQI		TSC	+1.09		TEC	TEH			534	HOT	560UL	Bobbin Exam
		0.64	94	22	TWD	13	TSC	+0.99	TO+1.28	01C	TSC	0.35	0.29	3	COLD	560XP	TTS Array Exam
		1.05	89	46	VOL		TSC	+1.17		01C	TSC	LPI		3	COLD	560XP	TTS Array Exam
80	67	0.12	146	P2	TWD	6	FB3	+0.92		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.20	106	6	VOL		FB3	+0.96		FB3	FB3	WAR		801	HOT	560XP	Special Interest E
80	91	0.25	122	174	VOL		FB4	-0.96		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.08	60	P2	TWD	5	FB4	-1.10		TEC	TEH	WAR		515	HOT	560UL	Bobbin Exam
81	20	0.30	81	174	TWD	7	TSC	+1.25	TO+1.47	01C	TSC	0.35	0.21	3	COLD	560XP	TTS Array Exam
		0.53	81	178	VOL		TSC	+1.42		01C	TSC	LPI		3	COLD	560XP	TTS Array Exam
		0.48	119	3	NQI		TSC	+1.49		TEC	TEH			507	HOT	560UL	Bobbin Exam
81	58	0.45	86	P2	TWD	18	FB4	-0.56		TEC	TEH	WAR		510	HOT	560UL	Bobbin Exam
81	60	0.49	69	P2	TWD	19	FB4	-0.62		TEC	TEH	WAR		510	HOT	560UL	Bobbin Exam
81	84	0.63	123	146	VOL		FB5	-0.69		FB5	FB5	WAR		802	HOT	560XP	Special Interest E
		0.28	96	P2	TWD	12	FB5	-0.54		TEC	TEH	WAR		516	HOT	560UL	Bobbin Exam
82	21	0.24	97	3	NQI		TSC	+0.72		TEC	TEH			535	HOT	560UL	Bobbin Exam
		0.09	74	3	NQI		TSC	+1.94		TEC	TEH			535	HOT	560UL	Bobbin Exam
		0.17	102	3	NQI		TSC	+2.30		TEC	TEH			535	HOT	560UL	Bobbin Exam
		0.36	89	190	TWD	8	TSC	+0.80	TO+1.07	01C	TSC	0.35	0.27	3	COLD	560XP	TTS Array Exam
		0.39	93	190	VOL		TSC	+1.01		01C	TSC	LPI		3	COLD	560XP	TTS Array Exam
		0.16	99	190	TWD	4	TSC	+1.84	TO+2.05	01C	TSC	0.21	0.21	3	COLD	560XP	TTS Array Exam
		0.20	98	190	TWD	5	TSC	+2.13	TO+2.34	01C	TSC	0.21	0.21	3	COLD	560XP	TTS Array Exam
		0.20	88	190	VOL		TSC	+2.26		01C	TSC	LPI		3	COLD	560XP	TTS Array Exam
		0.14	110	190	VOL		TSC	+1.92		01C	TSC	LPI		3	COLD	560XP	TTS Array Exam
82	73	0.16	88	P2	TWD	7	FB7	+1.96		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
		0.34	89	190	VOL		FB7	+1.88		FB7	FB7	WAR		802	HOT	560XP	Special Interest E
83	60	0.37	80	P2	TWD	16	FB4	-0.51		TEC	TEH	WAR		509	HOT	560UL	Bobbin Exam
85	72	0.11	123	P2	TWD	6	FB5	-0.59		TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
85	74	0.36	96	P2	TWD	14	FB5	-1.69		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
85	82	0.24	98	P2	TWD	10	FB3	-0.60		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
85	84	0.77	98	166	VOL		FB5	-0.69		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.38	97	18	VOL		FB4	-1.88		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.28	94	P2	TWD	12	FB5	-0.54		TEC	TEH	WAR		516	HOT	560UL	Bobbin Exam
		0.17	82	P2	TWD	7	FB4	-1.85		TEC	TEH	WAR		516	HOT	560UL	Bobbin Exam
86	67	0.29	87	P2	TWD	11	FB4	+1.55		TEC	TEH	WAR		512	HOT	560UL	Bobbin Exam
86	73	0.25	80	P2	TWD	10	FB5	+1.81		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
86	119	0.85	105	3	NQI		01C	-1.87		TEC	TEH			521	HOT	560UL	Bobbin Exam
		0.68	94	130	TWD	12	01C	-1.93	TO-1.63	01C	TSC	0.28	0.29	5	COLD	560XP	TTS Array Exam
		1.04	90	126	VOL		01C	-1.74		01C	TSC	LPI		5	COLD	560XP	TTS Array Exam
87	120	0.12	83	142	TWD	2	01C	-1.87	TO-1.66	01C	TSC	0.21	0.21	5	COLD	560XP	TTS Array Exam
		0.12	83	142	VOL		01C	-1.71		01C	TSC	LPI		5	COLD	560XP	TTS Array Exam
88	73	0.40	77	190	VOL		FB7	+1.53		FB7	FB7	WAR		802	HOT	560XP	Special Interest E
		0.28	81	P2	TWD	14	FB7	+1.84		TEC	TEH	WAR		513	HOT	560UL	Bobbin Exam
		0.63	90	P2	TWD	25	FB5	+1.67		TEC	TEH	WAR		513	HOT	560UL	Bobbin Exam
88	119	0.74	96	3	NQI		01C	-1.96		TEC	TEH			521	HOT	560UL	Bobbin Exam
		0.90	85	6	TWD	15	01C	-1.98	TO-1.71	01C	TSC	0.28	0.27	5	COLD	560XP	TTS Array Exam

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION			EXT	EXT	UTIL 1	UTIL 2	CAL #	LEG	PROBE	SCOPE
		0.90	85	6	VOL		01C	-1.87		01C	TSC	LPI		5	COLD	560XP	TTS Array Exam
90	69	0.47	94	P2	TWD	20	FB4	+1.01		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
92	69	0.17	55	P2	TWD	9	FB4	+1.68		TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
		0.21	76	158	VOL		FB4	+1.68		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
93	72	0.46	100	P2	TWD	17	FB5	+0.06		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
		0.13	98	178	VOL		FB5	+0.08		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
93	84	0.60	103	166	VOL		FB4	-1.02		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.13	82	P2	TWD	6	FB4	-0.95		TEC	TEH	WAR		516	HOT	560UL	Bobbin Exam
94	61	0.40	97	P2	TWD	16	FB5	-1.76		TEC	TEH	WAR		510	HOT	560UL	Bobbin Exam
94	73	0.32	94	P2	TWD	13	FB5	+0.61		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
94	77	0.16	101	P2	TWD	8	FB4	+0.66		TEC	TEH	WAR		513	HOT	560UL	Bobbin Exam
95	60	0.26	105	P2	TWD	12	FB5	-1.84		TEC	TEH	WAR		509	HOT	560UL	Bobbin Exam
		0.39	98	P2	TWD	17	FB4	-0.53		TEC	TEH	WAR		509	HOT	560UL	Bobbin Exam
		0.69	81	158	VOL		FB4	-1.13		FB4	FB4	WAR		802	HOT	560XP	Special Interest E
		0.49	58	158	VOL		FB5	-1.00		FB5	FB5	WAR		802	HOT	560XP	Special Interest E
95	64	0.24	107	P2	TWD	11	FB5	-1.25		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.19	112	P2	TWD	9	FB3	-1.22		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
95	70	0.26	86	P2	TWD	12	FB5	-1.69		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.31	88	P2	TWD	14	FB4	-0.80		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.37	47	122	VOL		FB4	-1.49		FB4	FB4	WAR		802	HOT	560XP	Special Interest E
		0.35	61	158	VOL		FB5	-1.06		FB5	FB5	WAR		802	HOT	560XP	Special Interest E
96	75	0.40	100	P2	TWD	15	FB5	+0.57		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
		0.31	105	P2	TWD	12	FB3	-1.79		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
97	64	0.21	100	P2	TWD	8	FB2	+0.76		TEC	TEH	WAR		512	HOT	560UL	Bobbin Exam
97	68	0.26	103	P2	TWD	10	FB6	+1.04		TEC	TEH	WAR		512	HOT	560UL	Bobbin Exam
98	33	0.28	85	46	VOL		TSC	+3.40		01C	TSC	LPI		3	COLD	560XP	TTS Array Exam
		0.27	88	46	TWD	6	TSC	+0.66	TO+0.90	01C	TSC	0.21	0.24	3	COLD	560XP	TTS Array Exam
		0.27	88	46	VOL		TSC	+0.82		01C	TSC	LPI		3	COLD	560XP	TTS Array Exam
		0.24	90	46	TWD	6	TSC	+3.21	TO+3.48	01C	TSC	0.21	0.26	3	COLD	560XP	TTS Array Exam
		0.14	98	3	NQI		TSC	+3.26		TEC	TEH			507	HOT	560UL	Bobbin Exam
		0.24	127	3	NQI		TSC	+0.70		TEC	TEH			507	HOT	560UL	Bobbin Exam
98	59	0.38	63	P2	TWD	17	FB4	-1.63		TEC	TEH	WAR		509	HOT	560UL	Bobbin Exam
99	64	0.28	80	P2	TWD	13	FB5	-1.15		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.38	73	P2	TWD	17	FB4	-1.03		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.27	101	P2	TWD	13	FB3	-1.15		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.31	93	154	VOL		FB4	-1.02		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
99	76	0.50	95	P2	TWD	21	FB4	+0.60		TEC	TEH	WAR		513	HOT	560UL	Bobbin Exam
100	59	0.11	36	P2	TWD	6	FB4	-1.66		TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
100	65	0.23	62	P2	TWD	12	FB5	+0.56		TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
		0.60	118	154	VOL		FB5	+0.52		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
100	79	0.36	91	P2	TWD	17	FB4	+1.79		TEC	TEH	WAR		513	HOT	560UL	Bobbin Exam
		0.43	97	P2	TWD	19	FB5	+1.67		TEC	TEH	WAR		513	HOT	560UL	Bobbin Exam
101	84	0.26	88	P2	TWD	11	FB5	-0.54		TEC	TEH	WAR		516	HOT	560UL	Bobbin Exam
102	67	0.18	63	P2	TWD	10	FB5	+0.62		TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
		0.10	90	P2	TWD	6	FB3	+0.71		TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
		0.44	59	Q8	VOL		FB5	+1.23		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
102	77	0.38	113	186	VOL		FB4	+1.23		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.23	152	146	VOL		FB5	+1.34		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.27	84	P2	TWD	13	FB4	+1.79		TEC	TEH	WAR		513	HOT	560UL	Bobbin Exam
		0.19	125	P2	TWD	10	FB5	+0.77		TEC	TEH	WAR		513	HOT	560UL	Bobbin Exam
103	68	0.36	75	P2	TWD	16	FB4	-0.95		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.23	97	P2	TWD	11	FB3	-1.31		TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.73	124	174	VOL		FB4	-0.08		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
104	69	0.16	78	P2	TWD	9	FB4	+1.68		TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
104	73	0.24	106	P2	TWD	10	FB7	+1.78		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		EXT	EXT	UTIL 1	UTIL 2	CAL #	LEG	PROBE	SCOPE
104	77	0.10	54	P2	TWD	6	FB7	+0.62	TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
105	66	0.36	68	P2	TWD	13	FB4	-0.51	TEC	TEH	WAR		512	HOT	560UL	Bobbin Exam
105	82	0.16	95	P2	TWD	7	FB4	-1.64	TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
106	67	0.37	106	P2	TWD	14	FB4	-1.61	TEC	TEH	WAR		512	HOT	560UL	Bobbin Exam
106	69	0.44	89	P2	TWD	16	FB6	+1.56	TEC	TEH	WAR		537	HOT	560UL	Bobbin Exam
		0.52	92	P2	TWD	19	FB5	+0.63	TEC	TEH	WAR		537	HOT	560UL	Bobbin Exam
		0.14	108	178	VOL		FB5	+1.21	FB5	FB5	WAR		802	HOT	560XP	Special Interest E
		0.16	100	154	VOL		FB6	+1.02	FB6	FB6	WAR		802	HOT	560XP	Special Interest E
106	77	0.25	91	P2	TWD	12	FB4	+1.60	TEC	TEH	WAR		513	HOT	560UL	Bobbin Exam
108	57	0.23	85	P2	TWD	9	FB5	+1.62	TEC	TEH	WAR		537	HOT	560UL	Bobbin Exam
		0.56	77	154	VOL		FB5	+1.45	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
108	69	0.21	66	P2	TWD	11	FB4	+1.68	TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
		0.71	96	174	VOL		FB4	+1.20	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
109	70	0.34	90	166	VOL		FB4	+0.79	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.07	139	P2	TWD	4	FB4	+0.83	TEC	TEH	WAR		513	HOT	560UL	Bobbin Exam
109	72	0.31	104	P2	TWD	12	FB5	+0.03	TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
110	57	0.19	56	P2	TWD	10	FB5	+1.77	TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
		0.57	87	154	VOL		FB5	+1.48	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
110	67	0.23	84	P2	TWD	12	FB5	-1.68	TEC	TEH	WAR		540	HOT	560UL	Bobbin Exam
111	58	0.05	73	P2	TWD	3	FB5	+1.04	TEC	TEH	WAR		509	HOT	560UL	Bobbin Exam
		0.25	78	162	VOL		FB5	+1.04	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
111	66	0.46	86	P2	TWD	20	FB6	-1.12	TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.26	121	P2	TWD	12	FB4	+1.12	TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.28	92	P2	TWD	13	FB4	-1.27	TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.19	125	190	VOL		FB4	+1.12	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.43	137	154	VOL		FB6	-1.12	FB6	FB6	WAR		801	HOT	560XP	Special Interest E
		0.71	87	178	VOL		FB4	-0.98	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
111	68	0.22	92	P2	TWD	11	FB4	+0.51	TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
111	74	0.14	106	P2	TWD	7	FB4	+1.61	TEC	TEH	WAR		513	HOT	560UL	Bobbin Exam
112	65	0.30	87	P2	TWD	15	FB6	+1.68	TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
		0.34	87	P2	TWD	16	FB5	+0.59	TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
		0.19	100	P2	TWD	10	FB2	-1.30	TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
		0.16	62	122	VOL		FB5	+1.07	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.26	97	154	VOL		FB6	+1.40	FB6	FB6	WAR		801	HOT	560XP	Special Interest E
112	69	0.14	80	P2	TWD	8	FB3	+0.68	TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
		0.20	91	P2	TWD	11	FB2	-1.39	TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
112	73	0.10	94	P2	TWD	4	FB4	+1.07	TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
		0.47	103	190	VOL		FB4	+1.18	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
113	62	0.26	77	P2	TWD	10	FB7	+0.60	TEC	TEH	WAR		512	HOT	560UL	Bobbin Exam
		0.61	156	166	VOL		FB7	+0.63	FB7	FB7	WAR		802	HOT	560XP	Special Interest E
113	68	0.37	67	P2	TWD	14	FB4	-0.50	TEC	TEH	WAR		512	HOT	560UL	Bobbin Exam
113	76	0.35	91	P2	TWD	14	FB4	-1.48	TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
113	80	0.35	83	P2	TWD	14	FB4	-1.66	TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
		0.23	98	P2	TWD	9	FB3	+0.15	TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
		0.16	115	P2	TWD	7	FB5	-1.69	TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
		0.55	128	186	VOL		FB3	-0.44	FB3	FB3	WAR		801	HOT	560XP	Special Interest E
		0.58	38	146	VOL		FB4	-1.76	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
114	67	0.67	86	P2	TWD	22	FB4	-1.16	TEC	TEH	WAR		512	HOT	560UL	Bobbin Exam
		0.27	95	P2	TWD	10	FB3	-0.54	TEC	TEH	WAR		512	HOT	560UL	Bobbin Exam
114	71	0.32	78	P2	TWD	13	FB4	+1.40	TEC	TEH	WAR		537	HOT	560UL	Bobbin Exam
		0.75	101	174	VOL		FB4	+1.78	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
115	66	0.17	107	P2	TWD	8	FB4	+0.80	TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.29	98	166	VOL		FB4	+0.93	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
116	67	0.15	102	P2	TWD	8	FB3	-0.68	TEC	TEH	WAR		511	HOT	560UL	Bobbin Exam
		0.48	90	186	VOL		FB3	-0.63	FB3	FB3	WAR		801	HOT	560XP	Special Interest E

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	EXT	EXT	UTIL 1	UTIL 2	CAL #	LEG	PROBE	SCOPE

Total Tubes : 110
Total Records: 220

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		EXT	EXT	UTIL 1	UTIL 2	CAL #	LEG	PROBE	SCOPE
5	72	0.18	103	P2	TWD	7	07H	+1.57	09C	TEH	WAR		557	HOT	560UL	Bobbin Exam
39	88	0.15	116	P2	TWD	5	FB4	-0.68	TEC	TEH	WAR		521	HOT	560UL	Bobbin Exam
45	52	0.15	86	P2	TWD	5	FB4	-0.86	TEC	TEH	WAR		538	HOT	560UL	Bobbin Exam
		0.10	106	P2	TWD	3	06H	+0.41	TEC	TEH	WAR		538	HOT	560UL	Bobbin Exam
46	57	0.14	84	P2	TWD	5	FB3	-1.99	TEC	TEH	WAR		539	HOT	560UL	Bobbin Exam
49	82	0.29	103	P2	TWD	11	FB5	+0.86	TEC	TEH	WAR		520	HOT	560UL	Bobbin Exam
51	78	0.32	99	P2	TWD	10	FB4	-0.95	TEC	TEH	WAR		521	HOT	560UL	Bobbin Exam
57	76	0.65	86	18	VOL		FB5	+1.44	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.22	120	P2	TWD	9	FB5	+1.39	TEC	TEH	WAR		520	HOT	560UL	Bobbin Exam
58	75	0.23	101	178	VOL		FB7	+1.24	FB7	FB7	WAR		801	HOT	560XP	Special Interest E
		0.07	87	P2	TWD	3	FB7	+0.59	TEC	TEH	WAR		553	HOT	560UL	Bobbin Exam
61	52	0.24	91	P2	TWD	8	FB5	+1.51	TEC	TEH	WAR		538	HOT	560UL	Bobbin Exam
62	43	2.36	79	22	VOL		07H	-1.56	07H	07H	WAR		801	HOT	560XP	Special Interest E
		0.27	77	P2	TWD	9	07H	-1.50	TEC	TEH	WAR		541	HOT	560UL	Bobbin Exam
		0.25	75	P2	TWD	9	07H	-1.50	TEC	TEH	WAR	IDOK	544	HOT	560UL	Bobbin Exam
64	73	0.49	111	174	VOL		FB5	+1.15	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.11	68	P2	TWD	4	FB5	+1.20	TEC	TEH	WAR		552	HOT	560UL	Bobbin Exam
65	88	0.79	95	190	VOL		FB4	+1.40	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.33	91	P2	TWD	12	FB4	+1.47	TEC	TEH	WAR		520	HOT	560UL	Bobbin Exam
68	51	0.24	78	P2	TWD	8	FB5	-1.32	TEC	TEH	WAR		538	HOT	560UL	Bobbin Exam
69	64	0.46	89	178	VOL		FB4	+1.55	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.12	102	P2	TWD	5	FB4	+1.63	TEC	TEH	WAR		537	HOT	560UL	Bobbin Exam
76	79	0.36	117	P2	TWD	13	FB4	-0.68	TEC	TEH	WAR		506	HOT	560UL	Bobbin Exam
		0.83	128	P30	VOL		FB4	+1.09	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
77	64	0.28	46	P2	TWD	9	FB4	-1.36	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
		0.32	27	190	VOL		FB4	-0.75	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
77	66	0.37	72	P2	TWD	11	FB4	-1.63	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
78	71	0.56	103	P2	TWD	16	FB5	-1.01	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
80	67	0.13	93	P2	TWD	5	FB4	+1.21	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
		0.38	112	186	VOL		FB4	+1.38	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
81	64	0.42	53	P2	TWD	13	FB4	-1.30	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
81	66	0.44	110	P2	TWD	13	FB5	+1.09	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
81	80	0.24	72	P2	TWD	9	FB2	-1.92	TEC	TEH	WAR		505	HOT	560UL	Bobbin Exam
82	65	0.36	105	P2	TWD	11	FB5	-1.42	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
86	83	0.24	101	P2	TWD	9	FB4	-1.74	TEC	TEH	WAR		505	HOT	560UL	Bobbin Exam
88	31	0.47	75	150	VOL		08H	+0.39	08H	08H	WAR		801	HOT	560XP	Special Interest E
		0.13	103	P2	TWD	5	08H	+0.38	TEC	TEH	WAR		535	HOT	560UL	Bobbin Exam
88	71	0.36	131	P2	TWD	13	FB5	-1.66	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
		0.12	272	178	VOL		FB5	-0.63	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
89	70	0.33	111	P2	TWD	10	FB5	+1.13	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
		0.13	103	178	VOL		FB5	+1.30	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
89	72	0.84	87	P2	TWD	25	FB5	-0.06	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
91	68	0.37	110	P2	TWD	13	FB5	-1.65	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
		0.25	77	190	VOL		FB5	-1.60	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
92	77	0.58	81	P2	TWD	18	FB5	-1.60	TEC	TEH	WAR		506	HOT	560UL	Bobbin Exam
94	65	0.12	115	P2	TWD	4	FB4	-0.89	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
94	73	0.35	100	P2	TWD	14	FB4	-1.21	TEC	TEH	WAR		507	HOT	560UL	Bobbin Exam
		0.22	97	P2	TWD	10	FB2	-1.80	TEC	TEH	WAR		507	HOT	560UL	Bobbin Exam
		0.47	35	190	VOL		FB4	-1.26	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.45	115	186	VOL		FB2	-1.82	FB2	FB2	WAR		801	HOT	560XP	Special Interest E
94	75	0.54	97	P2	TWD	20	FB5	-1.12	TEC	TEH	WAR		507	HOT	560UL	Bobbin Exam
		1.00	223	190	VOL		FB5	-1.63	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
94	77	0.38	90	166	VOL		FB5	-1.18	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.45	96	P2	TWD	16	FB5	-1.06	TEC	TEH	WAR		505	HOT	560UL	Bobbin Exam
95	72	0.51	102	P2	TWD	15	FB5	+0.15	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION			EXT	EXT	UTIL 1	UTIL 2	CAL #	LEG	PROBE	SCOPE
		0.42	94	166	VOL		FB5	-0.14		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
95	80	0.39	93	P2	TWD	13	FB4	+0.62		TEC	TEH	WAR		506	HOT	560UL	Bobbin Exam
96	35	0.35	96	18	VOL		TSH	+3.47		01H	TSH			7	HOT	560XP	TTS Array Exam
		0.38	101	18	TWD	6	TSH	+3.23	TO+3.58	01H	TSH	0.28	0.35	7	HOT	560XP	TTS Array Exam
		0.27	98	3	NQI		TSH	+3.22		TEC	TEH			532	HOT	560UL	Bobbin Exam
96	75	0.61	87	P2	TWD	21	FB5	-1.21		TEC	TEH	WAR		508	HOT	560UL	Bobbin Exam
		0.73	95	166	VOL		FB5	-1.20		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
97	36	0.22	107	14	VOL		TSH	+3.24		01H	TSH			7	HOT	560XP	TTS Array Exam
		0.17	110	46	TWD	3	TSH	+3.20	TO+3.44	01H	TSH	0.28	0.24	7	HOT	560XP	TTS Array Exam
		0.14	86	3	NQI		TSH	+3.13		TEC	TEH			531	HOT	560UL	Bobbin Exam
97	68	0.34	91	P2	TWD	11	FB5	-1.22		TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
		0.38	54	190	VOL		FB5	-1.65		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
97	72	0.94	89	P2	TWD	27	FB4	+0.03		TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
		0.90	87	P2	TWD	26	FB5	+0.03		TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
99	72	0.53	110	P2	TWD	18	FB5	-0.44		TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
		0.46	237	174	VOL		FB5	-0.42		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
100	35	0.19	91	10	VOL		TSH	+2.11		01H	TSH			7	HOT	560XP	TTS Array Exam
		0.17	93	10	TWD	3	TSH	+1.98	TO+2.22	01H	TSH	0.21	0.24	7	HOT	560XP	TTS Array Exam
		0.13	87	3	NQI		TSH	+1.90		TEC	TEH			532	HOT	560UL	Bobbin Exam
101	78	0.28	102	P2	TWD	11	FB4	+1.12		TEC	TEH	WAR		505	HOT	560UL	Bobbin Exam
102	73	0.23	102	P2	TWD	10	FB4	-1.18		TEC	TEH	WAR		507	HOT	560UL	Bobbin Exam
105	74	0.24	118	P2	TWD	10	FB5	+1.24		TEC	TEH	WAR		507	HOT	560UL	Bobbin Exam
		0.21	111	190	VOL		FB5	+0.82		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
106	73	0.19	114	P2	TWD	8	FB4	+1.47		TEC	TEH	WAR		507	HOT	560UL	Bobbin Exam
106	77	0.33	92	166	VOL		FB5	-1.01		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.38	93	P2	TWD	14	FB5	-1.06		TEC	TEH	WAR		505	HOT	560UL	Bobbin Exam
106	89	0.83	127	P30	VOL		FB5	-1.21		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.25	92	P2	TWD	10	FB5	-1.68		TEC	TEH	WAR		505	HOT	560UL	Bobbin Exam
108	75	0.28	107	P2	TWD	10	FB4	-1.07		TEC	TEH	WAR		508	HOT	560UL	Bobbin Exam
		0.24	76	190	VOL		FB4	-1.07		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
108	87	0.20	91	P2	TWD	7	FB4	-0.56		TEC	TEH	WAR		506	HOT	560UL	Bobbin Exam
		0.36	271	186	VOL		FB4	-0.82		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
110	75	0.20	84	P2	TWD	9	FB6	+0.56		TEC	TEH	WAR		507	HOT	560UL	Bobbin Exam
		0.55	116	P14	VOL		FB6	+0.66		FB6	FB6	WAR		801	HOT	560XP	Special Interest E
110	83	0.46	92	154	VOL		FB4	+1.01		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.17	74	P2	TWD	6	FB4	+1.15		TEC	TEH	WAR		505	HOT	560UL	Bobbin Exam
111	78	0.30	83	P2	TWD	11	FB5	-1.60		TEC	TEH	WAR		506	HOT	560UL	Bobbin Exam
112	77	0.22	111	P2	TWD	8	FB5	+1.12		TEC	TEH	WAR		506	HOT	560UL	Bobbin Exam
		0.51	99	P2	TWD	17	FB4	-0.59		TEC	TEH	WAR		506	HOT	560UL	Bobbin Exam
		0.68	74	166	VOL		FB4	-0.91		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
114	75	0.20	111	P2	TWD	9	FB7	+1.56		TEC	TEH	WAR		507	HOT	560UL	Bobbin Exam
		0.40	89	P2	TWD	16	FB5	-1.18		TEC	TEH	WAR		507	HOT	560UL	Bobbin Exam
		0.22	106	P2	TWD	10	FB3	+0.83		TEC	TEH	WAR		507	HOT	560UL	Bobbin Exam
		0.40	327	178	VOL		FB7	+1.70		FB7	FB7	WAR		801	HOT	560XP	Special Interest E
		0.47	80	166	VOL		FB5	-1.18		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.36	141	178	VOL		FB3	+0.88		FB3	FB3	WAR		801	HOT	560XP	Special Interest E
116	73	0.23	111	P2	TWD	9	FB4	+1.48		TEC	TEH	WAR		508	HOT	560UL	Bobbin Exam
		0.63	106	154	VOL		FB4	+1.48		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
116	75	0.91	74	P2	TWD	27	FB5	-1.21		TEC	TEH	WAR		508	HOT	560UL	Bobbin Exam
		0.44	79	P2	TWD	16	FB4	-1.07		TEC	TEH	WAR		508	HOT	560UL	Bobbin Exam
		0.24	112	P2	TWD	9	FB3	-1.15		TEC	TEH	WAR		508	HOT	560UL	Bobbin Exam
		1.17	108	190	VOL		FB5	-1.84		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.67	126	190	VOL		FB4	-0.49		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		1.26	230	190	VOL		FB3	-0.49		FB3	FB3	WAR		801	HOT	560XP	Special Interest E

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	EXT	EXT	UTIL 1	UTIL 2	CAL #	LEG	PROBE	SCOPE

Total Tubes : 58
Total Records: 109

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION			EXT	EXT	UTIL 1	UTIL 2	CAL #	LEG	PROBE	SCOPE
29	124	0.99	60	70	VOL		04H	-1.68		04H	04H	WAR		801	HOT	560XP	Special Interest E
		0.17	115	P2	TWD	7	04H	-1.52		TEC	TEH	WAR		549	HOT	560UL	Bobbin Exam
33	66	0.18	97	P2	TWD	8	FB5	+1.91		TEC	TEH	WAR		506	HOT	560UL	Bobbin Exam
33	104	1.79	83	150	VOL		04H	-1.42		04H	04H	LPI		801	HOT	560XP	Special Interest E
		0.77	63	Q7	TWD	20	04H	-1.75	TO-1.42	04H	04H	46.00	0.33	801	HOT	560XP	Special Interest E
		0.62	112	P1	NQI		04H	-1.58		TEC	TEH			545	HOT	560UL	Bobbin Exam
61	68	0.22	79	P2	TWD	9	FB5	+0.78		TEC	TEH	WAR		506	HOT	560UL	Bobbin Exam
		0.30	83	Q6	VOL		FB5	+0.94		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
62	77	0.50	83	P2	TWD	19	FB5	-0.95		TEC	TEH	WAR		542	HOT	560UL	Bobbin Exam
63	58	0.50	73	P2	TWD	17	FB5	+1.01		TEC	TEH	WAR		509	HOT	560UL	Bobbin Exam
63	88	0.33	80	Q6	VOL		FB4	-0.74		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.15	58	P2	TWD	6	FB4	-1.10		TEC	TEH	WAR		543	HOT	560UL	Bobbin Exam
65	64	0.40	89	Q5	VOL		FB4	+1.49		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.13	93	P2	TWD	6	FB4	+1.65		TEC	TEH	WAR		506	HOT	560UL	Bobbin Exam
66	93	0.11	59	P2	TWD	4	05H	+0.48		TEC	TEH	WAR		543	HOT	560UL	Bobbin Exam
68	53	0.88	125	P10	VOL		FB4	-1.02		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.20	90	P2	TWD	9	FB4	-1.79		TEC	TEH	WAR		508	HOT	560UL	Bobbin Exam
69	60	0.24	78	P2	TWD	10	FB4	-0.51		TEC	TEH	WAR		506	HOT	560UL	Bobbin Exam
69	64	0.46	143	P26	VOL		FB4	+1.72		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.15	79	P2	TWD	6	FB4	+1.26		TEC	TEH	WAR		506	HOT	560UL	Bobbin Exam
73	60	0.33	87	P2	TWD	10	FB4	-0.62		TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
75	54	0.19	101	P2	TWD	6	FB4	-1.09		TEC	TEH	WAR		527	HOT	560UL	Bobbin Exam
75	60	0.25	82	P2	TWD	11	FB4	-0.57		TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
75	66	0.22	112	138	VOL		FB4	-1.08		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.10	102	P2	TWD	4	FB4	-1.07		TEC	TEH	WAR		522	HOT	560UL	Bobbin Exam
76	61	0.38	99	P2	TWD	11	FB5	-1.18		TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
77	60	0.31	78	P2	TWD	9	FB4	-0.59		TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
77	72	0.56	60	118	VOL		FB4	-0.38		FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.45	123	P2	TWD	17	FB4	-0.59		TEC	TEH	WAR		552	HOT	560UL	Bobbin Exam
78	69	0.33	91	P2	TWD	10	FB5	-1.28		TEC	TEH	WAR		523	HOT	560UL	Bobbin Exam
		0.19	104	106	VOL		FB5	-1.34		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
79	60	0.19	102	P2	TWD	9	FB4	-0.63		TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
80	61	0.24	95	P2	TWD	7	FB6	-1.12		TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
82	59	0.36	133	106	VOL		FB5	-1.21		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.17	106	P2	TWD	8	FB5	-0.62		TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
82	63	0.16	106	P2	TWD	8	FB5	-1.64		TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
82	73	0.22	47	P2	TWD	8	FB5	+1.61		TEC	TEH	WAR		531	HOT	560UL	Bobbin Exam
83	60	0.37	80	P2	TWD	15	FB4	-0.57		TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
84	65	0.25	102	106	VOL		FB5	-1.35		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.32	92	P2	TWD	14	FB5	-1.64		TEC	TEH	WAR		522	HOT	560UL	Bobbin Exam
84	67	0.41	98	P2	TWD	12	FB5	-1.30		TEC	TEH	WAR		523	HOT	560UL	Bobbin Exam
85	60	0.64	85	P2	TWD	17	FB4	-0.98		TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
85	62	0.69	220	118	VOL		FB6	-1.62		FB6	FB6	WAR		801	HOT	560XP	Special Interest E
		0.26	99	P2	TWD	8	FB6	-1.74		TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
86	59	0.31	106	106	VOL		FB5	-0.97		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.22	62	142	VOL		FB3	+0.75		FB3	FB3	WAR		801	HOT	560XP	Special Interest E
		0.21	90	P2	TWD	10	FB3	+0.62		TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
		0.34	98	P2	TWD	14	FB5	-1.16		TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
86	61	0.33	97	P2	TWD	14	FB5	-1.67		TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
86	73	0.40	76	P2	TWD	13	FB5	+1.74		TEC	TEH	WAR		531	HOT	560UL	Bobbin Exam
87	70	0.30	92	P2	TWD	9	FB5	+1.19		TEC	TEH	WAR		523	HOT	560UL	Bobbin Exam
		0.92	71	P9	VOL		FB5	+1.63		FB5	FB5	WAR		801	HOT	560XP	Special Interest E
90	59	0.30	111	142	VOL		FB3	+1.32		FB3	FB3	WAR		801	HOT	560XP	Special Interest E
		0.14	80	P2	TWD	7	FB3	+0.66		TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
90	67	0.49	102	106	VOL		FB6	-0.69		FB6	FB6	WAR		801	HOT	560XP	Special Interest E

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		EXT	EXT	UTIL 1	UTIL 2	CAL #	LEG	PROBE	SCOPE
		0.21	102	P2	TWD	10	FB6	-0.69	TEC	TEH	WAR		522	HOT	560UL	Bobbin Exam
90	71	0.11	52	P2	TWD	5	FB4	-1.56	TEC	TEH	WAR		520	HOT	560UL	Bobbin Exam
90	73	0.30	70	P2	TWD	10	FB5	+1.71	TEC	TEH	WAR		531	HOT	560UL	Bobbin Exam
93	68	0.28	115	118	VOL		FB5	-1.24	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.24	112	P2	TWD	11	FB5	-1.73	TEC	TEH	WAR		522	HOT	560UL	Bobbin Exam
93	70	0.25	101	118	VOL		FB5	-1.16	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.32	103	P2	TWD	14	FB5	-0.59	TEC	TEH	WAR		522	HOT	560UL	Bobbin Exam
93	74	0.22	75	P2	TWD	8	FB4	-1.12	TEC	TEH	WAR		531	HOT	560UL	Bobbin Exam
94	61	0.44	120	130	VOL		FB6	-0.83	FB6	FB6	WAR		801	HOT	560XP	Special Interest E
		0.18	87	P2	TWD	8	FB6	-0.60	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
		0.25	102	P2	TWD	11	FB5	-1.58	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
95	54	0.13	65	P2	TWD	4	FB4	+1.45	TEC	TEH	WAR		527	HOT	560UL	Bobbin Exam
95	60	0.40	92	P2	TWD	16	FB4	-0.60	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
95	64	0.14	44	118	VOL		FB5	-1.16	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.42	97	P2	TWD	12	FB5	-1.24	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
96	59	0.41	93	P2	TWD	17	FB4	+1.19	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
96	61	0.36	90	P2	TWD	10	FB5	-1.65	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
96	67	0.66	100	142	VOL		FB4	+1.42	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.22	84	P2	TWD	7	FB4	+1.38	TEC	TEH	WAR		523	HOT	560UL	Bobbin Exam
98	61	0.26	94	P2	TWD	11	FB6	-0.60	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
99	62	0.16	113	P2	TWD	8	FB7	+0.78	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
100	59	0.33	110	130	VOL		FB4	-1.13	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.18	126	P2	TWD	9	FB4	-1.16	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
		0.16	73	P2	TWD	7	FB6	+1.73	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
100	61	0.70	158	118	VOL		FB6	+0.57	FB6	FB6	WAR		801	HOT	560XP	Special Interest E
		0.41	83	P2	TWD	12	FB6	+0.45	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
101	64	0.16	257	118	VOL		FB5	-1.10	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.50	98	P2	TWD	19	FB5	-1.10	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
102	63	0.16	127	P2	TWD	8	FB7	+1.22	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
104	65	0.28	109	P2	TWD	8	FB4	+1.19	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
104	73	0.13	110	P2	TWD	6	FB4	+1.22	TEC	TEH	WAR		530	HOT	560UL	Bobbin Exam
105	68	0.20	105	142	VOL		FB6	-1.60	FB6	FB6	WAR		801	HOT	560XP	Special Interest E
		0.32	83	P2	TWD	14	FB6	-1.79	TEC	TEH	WAR		522	HOT	560UL	Bobbin Exam
107	68	0.46	77	Q14	VOL		FB5	-0.96	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.29	81	P2	TWD	9	FB5	-0.93	TEC	TEH	WAR		523	HOT	560UL	Bobbin Exam
108	65	0.48	148	106	VOL		FB5	-1.87	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.22	115	106	VOL		FB4	-1.07	FB4	FB4	WAR		801	HOT	560XP	Special Interest E
		0.26	103	P2	TWD	8	FB5	-1.35	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
		0.31	111	P2	TWD	9	FB4	-1.13	TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
109	68	0.27	107	106	VOL		FB5	+0.77	FB5	FB5	WAR		801	HOT	560XP	Special Interest E
		0.30	96	P2	TWD	13	FB5	+0.66	TEC	TEH	WAR		522	HOT	560UL	Bobbin Exam
110	61	0.64	81	P2	TWD	23	FB4	-0.93	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
110	63	0.24	116	142	VOL		FB7	+1.52	FB7	FB7	WAR		801	HOT	560XP	Special Interest E
		0.23	105	P2	TWD	10	FB7	+1.67	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam
110	67	0.33	97	P2	TWD	14	FB4	-0.60	TEC	TEH	WAR		522	HOT	560UL	Bobbin Exam
114	61	0.23	123	118	VOL		FB6	+1.13	FB6	FB6	WAR		801	HOT	560XP	Special Interest E
		0.23	83	P2	TWD	10	FB6	+1.19	TEC	TEH	WAR		524	HOT	560UL	Bobbin Exam

Total Tubes : 64
Total Records: 102

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	EXT	EXT	UTIL 1	UTIL 2	CAL #	LEG	PROBE	SCOPE

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION			EXT	EXT	UTIL 1	UTIL 2	CAL #	LEG	PROBE	SCOPE
6	61	0.19	127	P1	NQI		07C	-1.72		09C	TEC			501	COLD	560UL	Bobbin Exam
		0.33	100	82	VOL		07C	-1.87		07C	06C			801	COLD	560XP	Special Interest E
		0.41	96	82	TWD	8	07C	-2.01	TO-1.71	07C	06C	0.28	0.30	801	COLD	560XP	Special Interest E
15	142	0.18	112	P2	TWD	7	07H	+0.36		TEC	TEH	WAR		502	HOT	560UL	Bobbin Exam
31	8	1.08	110	178	VOL		TSH	+0.16		TSH	01H	LAR	IDOK	800	COLD	560XP	Post SSI LP Boundi
		1.79	105	26	VOL		TSH	+0.08		01H	TSH	LAR		8	HOT	560XP	TTS Exam
		2.03	46	Q3	TWD	33	TSH	-0.13	TO+0.11	01H	TSH	0.42	0.24	8	HOT	560XP	TTS Exam
32	7	0.60	155	54	VOL		TSH	+0.19		TSH	01H	LAR	IDOK	800	COLD	560XP	Post SSI LP Boundi
		0.36	166	178	VOL		TSH	+0.19		01H	TSH	LAR		8	HOT	560XP	TTS Exam
		0.39	39	Q8	TWD	10	TSH	-0.11	TO+0.05	01H	TSH	0.35	0.16	8	HOT	560XP	TTS Exam
33	8	0.12	48	138	VOL		TSH	+17.78		TSH	01H	LAR	IDOK	800	COLD	560XP	Post SSI LP Boundi
		0.16	116	62	VOL		TSH	+17.67		01H	TSH	LAR		8	HOT	560XP	TTS Exam
		0.13	95	90	TWD	3	TSH	+17.56	TO+17.91	01H	TSH	0.28	0.35	8	HOT	560XP	TTS Exam
		0.11	123	3	NQI		TSH	+17.53		TEC	TEH			561	HOT	560UL	Bobbin Exam
34	7	0.52	146	70	VOL		TSH	+0.18		TSH	01H	LAR	IDOK	800	COLD	560XP	Post SSI LP Boundi
		0.59	145	166	VOL		TSH	+0.19		01H	TSH	LAR		8	HOT	560XP	TTS Exam
		0.85	106	Q15	TWD	19	TSH	-0.19	TO+0.08	01H	TSH	0.35	0.27	8	HOT	560XP	TTS Exam
45	98	0.18	125	P2	TWD	8	FB5	-1.40		TEC	TEH	WAR		507	HOT	560UL	Bobbin Exam
		0.35	116	10	VOL		FB5	-1.48		FB5	FB5	WAR		11	HOT	560XP	Special Interest E
51	60	0.13	77	P2	TWD	6	FB5	+0.82		TEC	TEH	WAR		536	HOT	560UL	Bobbin Exam
		0.64	102	18	VOL		FB5	+1.08		FB5	FB5	WAR		11	HOT	560XP	Special Interest E
56	75	0.43	107	46	VOL		FB5	-1.14		FB5	FB5	WAR		11	HOT	560XP	Special Interest E
		0.23	93	P2	TWD	11	FB5	-1.59		TEC	TEH	WAR		525	HOT	560UL	Bobbin Exam
59	92	0.26	98	P2	TWD	12	FB4	+1.59		TEC	TEH	WAR		505	HOT	560UL	Bobbin Exam
67	80	0.12	102	P2	TWD	7	FB7	+1.88		TEC	TEH	WAR		508	HOT	560UL	Bobbin Exam
68	55	0.19	119	P2	TWD	10	FB6	+0.80		TEC	TEH	WAR		537	HOT	560UL	Bobbin Exam
		0.53	107	6	VOL		FB6	+0.85		FB6	FB6	WAR		11	HOT	560XP	Special Interest E
72	57	0.64	100	186	VOL		FB4	-1.07		FB4	FB4	WAR		11	HOT	560XP	Special Interest E
		0.11	70	P2	TWD	5	FB4	-1.22		TEC	TEH	WAR		530	HOT	560UL	Bobbin Exam
76	85	0.10	99	P2	TWD	4	FB4	+0.98		TEC	TEH	WAR		519	HOT	560UL	Bobbin Exam
77	86	0.32	105	P2	TWD	14	FB5	-1.69		TEC	TEH	WAR		519	HOT	560UL	Bobbin Exam
		0.81	66	Q1	VOL		FB5	-1.15		FB5	FB5	WAR		11	HOT	560XP	Special Interest E
85	86	0.18	98	P2	TWD	8	FB5	-1.54		TEC	TEH	WAR		519	HOT	560UL	Bobbin Exam
87	74	0.22	132	P2	TWD	11	FB4	+1.81		TEC	TEH	WAR		520	HOT	560UL	Bobbin Exam
87	90	0.15	88	P2	TWD	8	FB4	-0.57		TEC	TEH	WAR		518	HOT	560UL	Bobbin Exam
89	78	0.26	122	P2	TWD	12	FB5	-1.66		TEC	TEH	WAR		519	HOT	560UL	Bobbin Exam
91	82	0.21	108	P2	TWD	11	FB4	+1.69		TEC	TEH	WAR		518	HOT	560UL	Bobbin Exam
92	65	0.43	96	186	VOL		FB4	-0.82		FB4	FB4	WAR		11	HOT	560XP	Special Interest E
		0.08	73	P2	TWD	4	FB4	-0.98		TEC	TEH	WAR		528	HOT	560UL	Bobbin Exam
93	80	0.25	102	P2	TWD	11	FB6	-0.56		TEC	TEH	WAR		519	HOT	560UL	Bobbin Exam
96	81	0.30	61	P2	TWD	15	FB5	+0.83		TEC	TEH	WAR		518	HOT	560UL	Bobbin Exam
97	72	0.40	39	Q8	VOL		FB5	+0.09		FB5	FB5	WAR		11	HOT	560XP	Special Interest E
		0.48	36	Q8	VOL		FB4	-0.17		FB4	FB4	WAR		11	HOT	560XP	Special Interest E
		0.24	121	P2	TWD	11	FB5	+0.12		TEC	TEH	WAR		526	HOT	560UL	Bobbin Exam
		0.28	119	P2	TWD	12	FB4	+0.00		TEC	TEH	WAR		526	HOT	560UL	Bobbin Exam
98	73	0.17	80	P2	TWD	6	FB4	+1.04		TEC	TEH	WAR		512	HOT	560UL	Bobbin Exam
99	80	0.35	60	P2	TWD	17	FB4	-0.62		TEC	TEH	WAR		518	HOT	560UL	Bobbin Exam
		0.25	91	P2	TWD	13	FB7	+1.77		TEC	TEH	WAR		518	HOT	560UL	Bobbin Exam
100	79	0.12	89	P2	TWD	7	FB7	+0.62		TEC	TEH	WAR		518	HOT	560UL	Bobbin Exam
		0.58	108	170	VOL		FB7	+0.79		FB7	FB7	WAR		11	HOT	560XP	Special Interest E
103	56	0.08	74	P2	TWD	4	FB4	-0.86		TEC	TEH	WAR		530	HOT	560UL	Bobbin Exam
107	80	0.25	85	P2	TWD	13	FB6	-0.56		TEC	TEH	WAR		518	HOT	560UL	Bobbin Exam
112	83	0.31	103	P2	TWD	14	FB4	+1.16		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam
		0.28	101	P2	TWD	13	FB5	+0.80		TEC	TEH	WAR		514	HOT	560UL	Bobbin Exam

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	EXT	EXT	UTIL 1	UTIL 2	CAL #	LEG	PROBE	SCOPE

Total Tubes : 30
Total Records: 54