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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20.01402.159

REPORT NO.: 99-26

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SURVEILLANCE SCOPE: Surveillance on Calibrated Equipment for during CNWRA Project Activities

REFERENCE DOCUMENTS: QAP-004, Surveillance Control, Section 3.3 and 3.4; SwRI Calibration Laboratory Data Base

STARTING DATE: 12/03/99

ENDING DATE: 12/08/99

QA REPRESENTATIVE: Mark R. Ehnstrom *MRE*

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: S. Brossia, M. Hill, D. Dunn

SATISFACTORY FINDINGS:

Surveillance activities were performed on critical equipment issued to CNWRA personnel. An equipment list generated by the SwRI Calibration Laboratory was used as the basis for the surveillance. Equipment serial numbers were captured from equipment maintained in CNWRA laboratories. From the equipment list, which contained approximately 122 active pieces, 55 pieces of equipment were reviewed. The results of the surveillance were as follows:

- Thermometer Serial No. C96-784 was mislabeled with a calibration tag identifying it as serial number C96-727. A new calibration tag was obtained from the calibration laboratory and the thermometer was correctly labeled.
- The calibration tag for Thermometer Serial No. 9243195 was missing and was replaced during the surveillance.
- The calibration date for Torque screwdriver #2 had expired. The screwdriver was removed from the laboratory and sent for re-certification.
- The calibration date for Fluke Multimeter Serial No. 61880517 had expired. The multimeter was identified with a "Out Of Calibration" sticker and will be sent for re-certification. The multimeter had not been utilized for any critical measuring activities since it was out of calibration.

UNSATISFACTORY FINDINGS: None

NONCONFORMANCE REPORT NO.: N/A.

ATTACHMENTS: SwRI Calibration Laboratory Division 20 Inventory List

RECOMMENDATIONS/ACTIONS: A number of pieces of measuring equipment on the SwRI Equipment List identify currently active equipment which have expired "calibration" or "certification" dates. A memorandum from QA should be sent out to the personnel responsible for this equipment. This memorandum will remind them that this equipment cannot be used for any formal experiments without "recalibrating" or "recertifying" the measuring equipment.

APPROVED: *James Mahoney*
CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: 12/9/99

DISTRIBUTION:

ORIGINAL - CENTER QA DIRECTOR QA Records

ORIGINATOR: Mark R. Ehnstrom

INVESTIGATORS: Brossia, Dunn, Hill, *Grees, Portyul,*

ALL ELEMENT MANAGERS: *Scarfetti, Combar*

B. Sagar, H. Garcia

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ANNE MARIE LEJEUNE

Asset No.	Mfg.	Model	Description	Serial No.	Cal Date	Cal Due	State
007575	UNKNOWN	0-30 IN.HG.	PRESSURE GAUGE	7575	6 Oct 99	6 Apr 00	I
007576	UNKNOWN	0-30 IN.HG.	PRESSURE GAUGE	7576	6 Oct 99	6 Apr 00	I
007577	UNKNOWN	0-30 IN.HG.	PRESSURE GAUGE	7577	6 Oct 99	6 Apr 00	I
007578	UNKNOWN	0-30 IN.HG.	PRESSURE GAUGE	7578	6 Oct 99	6 Apr 00	I
007579	S.M. GAUGE	CO0-100 MBAR	PRESSURE GAUGE	991785	6 Oct 99	6 Oct 99	I
007580	S.M. GAUGE	CO0-60 MBAR	PRESSURE GAUGE	7580	6 Oct 99	6 Oct 99	I
007581	S.M. GAUGE	CO0-100 MBAR	PRESSURE GAUGE	7581	6 Oct 99	6 Oct 99	I
007630	EDWARDS	D35726000	STRAIN GAUGE	995000176	3 Nov 99	3 May 00	I
007631	EDWARDS	D35727000	STRAIN GAUGE	995000241	3 Nov 99	3 May 00	I
007632	EDWARDS	D35726000	STRAIN GAUGE	995000185	3 Nov 99	3 May 00	I

Custodian Total:10

CHUCK CONNER

Asset No.	Mfg.	Model	Description	Serial No.	Cal Date	Cal Due	State
003184	CAMPB	CR10	DATA LOGGER	19545	11 Mar 96	11 Mar 97	A

Custodian Total:1

DARRELL DUNN

Asset No.	Mfg.	Model	Description	Serial No.	Cal Date	Cal Due	State
001044	KEITHLEY	617	ELECTROMETER	537418	30 Oct 98	30 Oct 99	A
001422	EG&G	173	POTENTIOSTAT/GALVANOSTA	62101	9 May 93	19 May 94	I
001423	ELECT	410	POTENTIOSTATIC CONTROLL	9029548	21 Apr 93	21 Apr 94	I
001424	ELECT	410	POTENTIOSTATIC CONTROLL	9105556	21 Apr 93	21 Apr 94	I
001425	ELECT	410	POTENTIOSTATIC CONTROLL	9105557	21 Apr 93	21 Apr 94	I
001426	ELECT	440-6	POTENTIOSTATIC CONTROLL	9029127	13 Jan 92	13 Jan 93	I
001427	FISHER SCIENT	14-983-10C	THERMOMETER	1238004	29 Jul 92	29 Jul 93	I
001428	FISHER SCIENT	14-983-10E	THERMOMETER	1238003	18 Sep 92	18 Sep 92	I
001429	FISHER SCIENT	14-983-10B	THERMOMETER	1238001	18 Sep 92	18 Sep 93	I
001430	FISHER SCIENT	14-983-10E	THERMOMETER	1238002	14 Sep 99	14 Sep 00	A
001431	FISHER SCIENT	14-983-10B	THERMOMETER	1253001	18 Sep 92	18 Sep 92	I
001432	FISHER SCIENT	15041B	THERMOMETER	893-3313	1 Oct 91	1 Oct 92	I
001433	FISHER SCIENT	15041B	THERMOMETER	893-3281	1 Oct 91	1 Oct 92	I
001434	FLUKE	8050A	DIGITAL MULTIMETER	5005078	19 Jan 99	19 Jan 00	A
001435	FLUKE	8050A	DIGITAL MULTIMETER	5005110	16 Jun 99	16 Jun 00	A
001437	KEITHLEY	485	AUTORANGING PICOAMMETE	509163	19 Mar 99	19 Mar 00	A
001438	KEITHLEY	614	ELECTROMETER	467374	19 Mar 99	19 Mar 00	A
001441	ORION	720A	PH/ION METER	003368	30 Nov 99	30 Nov 00	A
001442	PRONT	6062-5	TORQUE WRENCH	A90687	25 Jan 93	25 Jul 93	I
001443	PROTO	6103	TORQUE SCREWDRIVER	#2	1 Jun 99	1 Dec 99	A
001445	YSI	35	CONDUCTANCE METER	90D014379	13 Sep 99	13 Sep 00	A
001869	ORION	720A	PH/ION METER	005885	15 Jun 99	15 Jun 00	A
001880	ORION	EA 920	EXPANDABLE IONANALYZER	S001A	24 Mar 99	24 Mar 00	A
001893	FISHER SCIENT	ACCUMET 950	PH/ION METER	3340	2 Jun 99	2 Jun 00	A
001948	ORION	EA 940	EXPANDABLE IONANALYZER	2330	25 Mar 99	25 Mar 00	A
001997	OMEGA	HH22	MICROPROCESSOR THERMO	T-94140	31 Mar 99	30 Sep 99	A
002026	PARR	4841	TEMPERATURE CONTROLLER	0690	12 Feb 93	12 Aug 93	I
002027	PARR	4841	TEMPERATURE CONTROLLER	0690A	4 Aug 95	2 Feb 96	I
002028	METTLER	UMT2	ELECTRONIC BALANCE	211001-142	30 Sep 99	30 Mar 00	A
002029	SARTORIUS	RC210P	ELECTRONIC BALANCE	10704379	24 Sep 99	24 Mar 00	A
002040	FISHER SCIENT	14-983-10C	THERMOMETER	0323002	15 Apr 97	15 Apr 98	I
002041	FISHER SCIENT	14-983-10C	THERMOMETER	0323003	21 Mar 94	21 Mar 95	I
002042	FISHER SCIENT	14-983-10B	THERMOMETER	0323004	7 May 99	7 May 00	A
002043	FISHER SCIENT	14-983-10B	THERMOMETER	0323005	5 Jun 96	5 Jun 97	I
002044	FISHER SCIENT	14-983-10B	THERMOMETER	0323006	2 Feb 93	2 Feb 94	I
002045	FISHER SCIENT	14-983-10B	THERMOMETER	0323007	1 May 99	11 May 00	A
002046	FISHER SCIENT	14-983-10B	THERMOMETER	0323008	15 Apr 97	15 Apr 98	I
002185	FOWLER & NSK	52-008-008	DIAL CALIPER	20-8C-1	14 Sep 99	14 Mar 00	A
002186	UNKNOWN	25 X 0.01MM	MICROMETER	20-M-1	15 Sep 99	15 Mar 00	A
002291	ABBEON	SE 120	PLOTTER	0049616	15 Jun 99	15 Jun 00	A
002292	ABBEON	SE 120	PLOTTER	0515265	15 Jun 99	15 Jun 00	A
002310	KESSLER	ASTM 82C	THERMOMETER	9243196	14 Jun 99	14 Jun 00	A
002311	FISHER SCIENT	ASTM 82C	THERMOMETER	924 3197	12 Apr 94	12 Apr 95	I
002312	KESSLER	ASTM 82C	THERMOMETER	9243200	15 Apr 97	15 Apr 98	I
002313	KESSLER	ASTM 82C	THERMOMETER	9243195	14 Jun 99	14 Jun 00	A
002467	FISHER SCIENT	14-983-10B	THERMOMETER	183301	19 Nov 99	19 May 00	A
002468	FISHER SCIENT	14-983-10B	THERMOMETER	183302	19 Nov 99	19 May 00	A
002469	FISHER SCIENT	14-983-10B	THERMOMETER	183303	19 Nov 99	19 May 00	A

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002470	FISHER SCIENT 14-983-10B	THERMOMETER	183304	19 Nov 99	19 May 00	A
✓002471	FISHER SCIENT 14-983-10B	THERMOMETER	183305	19 Nov 99	19 May 00	A
002472	FISHER SCIENT 14-983-10B	THERMOMETER	183306	11 Jan 94	11 Jul 94	I
002524	OMEGA DP485-KC-MDSSD	PROGRAMMABLE THERMOCO	3130900	31 Aug 99	29 Feb 00	A
002792	KEITHLEY 614	ELECTROMETER	0555368	6 Nov 98	6 Nov 99	A
✓003095	SWRI 10 OHM	RESISTOR BOX	171002	20 Sep 99	20 Mar 00	A
003096	SWRI 1000 OHM	RESISTOR BOX	171001	20 Sep 99	20 Mar 00	A
003238	KESSLER ASTM IC 76MM	THERMOMETER	115820	28 Jul 95	28 Jul 96	I
003239	KESSLER ASTM IC 76MM	THERMOMETER	115847	14 Aug 95	14 Aug 96	I
003240	KESSLER ASTM 1C 76MM	THERMOMETER	61771	4 Sep 97	4 Sep 98	I
003241	KESSLER ASTM IC 76MM	THERMOMETER	61644	28 Jul 95	28 Jul 96	I
✓003242	KESSLER ASTM 76MM 1MM	THERMOMETER	115858	16 Mar 99	16 Mar 00	A
003243	KESSLER ASTM 1C 76MM	THERMOMETER	115785	27 Jul 95	27 Jul 95	I
003244	KESSLER ASTM 1C 76MM	THERMOMETER	115880	30 Oct 98	30 Apr 99	I
003245	KESSLER ASTM 1C 76MM	THERMOMETER	115809	4 Sep 97	4 Sep 98	I
003246	KESSLER ASTM IC 76MM	THERMOMETER	115876	22 Jul 94	22 Jul 95	I
003247	KESSLER ASTM 1C 76MM	THERMOMETER	115749	20 Oct 98	20 Oct 99	A
003248	KESSLER ASTM 1C 76MM	THERMOMETER	115814	20 Oct 98	20 Oct 99	A
003325	ORION EA 940	EXPANDABLE IONANALYZER	4274	4 May 99	4 Nov 99	A
003400	KEITHLEY 617	ELECTROMETER	0579028	27 Oct 98	27 Oct 99	A
✓003778	KESSLER ASTM 82C	THERMOMETER	32922	13 Sep 99	13 Sep 00	A
004092	PROTO 6104	TORQUE SCREWDRIVER	314047	9 May 99	19 Nov 99	A
004199	TROEMNER 200G	WEIGHT STANDARD	63813	9 Mar 99	9 Mar 00	A
004813	KEITHLEY 617	ELECTROMETER	0599913	8 Jun 99	8 Jun 99	I
004828	BLUE M ELECT BM711100000011	CHART RECORDER	91E34523	14 Sep 99	14 Mar 00	A
✓004986	FISHER SCIENT 15-166A	THERMOMETER	C96-833	22 Nov 99	22 May 00	A
✓004987	FISHER SCIENT 15-166A	THERMOMETER	C96-616	22 Nov 99	22 May 00	A
004988	FISHER SCIENT 15-166A	THERMOMETER	C96-742	3 Sep 97	3 Mar 98	I
004989	FISHER SCIENT 15-166A	THERMOMETER	C96-649	2 May 99	12 Nov 99	A
✓004991	FISHER SCIENT 15-166A	THERMOMETER	C96-637	22 Nov 99	22 May 00	A
✓004992	FISHER SCIENT 15-166A	THERMOMETER	C96-727	22 Nov 99	22 May 00	A
004993	FISHER SCIENT 15-166A	THERMOMETER	C96-377	2 May 99	12 Nov 99	A
004994	FISHER SCIENT 15-166A	THERMOMETER	→ C96-784/729	22 Nov 99	22 May 00	A
✓004996	FISHER SCIENT 15041C	THERMOMETER	9253474	19 Nov 99	19 May 00	A
004998	FISHER SCIENT 15-166A	THERMOMETER	C96-819	3 Sep 97	3 Mar 98	I
✓005352	ORION EA 920	EXPANDABLE IONANALYZER	TV64A	24 Mar 99	24 Mar 00	A
✓005432	FISHER SCIENT 15-166A	THERMOMETER	C96-852	18 Aug 99	18 Feb 00	A
✓005433	FISHER SCIENT 15-166A	THERMOMETER	C96-816	18 Aug 99	18 Feb 00	A
005434	FISHER SCIENT 15-166A	THERMOMETER	C96-783	18 Aug 99	18 Feb 00	A
✓007088	KEITHLEY 614	ELECTROMETER	0704934	2 Mar 99	2 Mar 00	A
007089	KEITHLEY 614	ELECTROMETER	0704936	2 Mar 99	2 Mar 00	A
✓007164	FISHER SCIENT 15-166A	THERMOMETER	C98-106	17 Mar 99	17 Mar 00	A
007165	FISHER SCIENT 15-166A	THERMOMETER	H98-187	17 Mar 99	17 Mar 00	A
✓007166	FISHER SCIENT 15-166A	THERMOCOUPLE	H98-170	17 Mar 99	17 Mar 00	A
007167	FISHER SCIENT 15-166A	THERMOMETER	H98-182	17 Mar 99	17 Mar 00	A
✓007168	FISHER SCIENT 15-166A	THERMOMETER	C98-101	17 Mar 99	17 Mar 00	A
✓007169	FISHER SCIENT 15-166A	THERMOMETER	H98-179	17 Mar 99	17 Mar 00	A
✓007170	FISHER SCIENT 15-166A	THERMOMETER	C98-132	17 Mar 99	17 Mar 00	A
✓007171	FISHER SCIENT 15-166A	THERMOMETER	H98-162	16 Mar 99	16 Mar 00	A
007243	SWRI 10K-100M OHMS	RESISTOR BOX	7243	9 Jun 99	9 Dec 99	A
✓007296	FISHER SCIENT 15-166A	THERMOMETER	H98-149	22 Nov 99	22 May 00	A
✓007299	FISHER SCIENT 15-166A	THERMOMETER	H98-168	22 Nov 99	22 May 00	A
✓007300	FISHER SCIENT 15-166A	THERMOMETER	H98-180	22 Nov 99	22 May 00	A
✓007302	ERTCO ASTM 1C	THERMOMETER	E98-293	22 Nov 99	22 May 00	A
✓007303	ERTCO 76MM 1MM	THERMOMETER	E98-273	22 Nov 99	22 May 00	A
✓007304	ERTCO ASTM 1C	THERMOMETER	F98-393	22 Nov 99	22 May 00	A
✓007645	FLUKE 87 III	TRUE RMS MULTIMETER	73850992	3 Nov 99	3 Nov 00	A
007646	FLUKE 87 III	TRUE RMS MULTIMETER	73980497	3 Nov 99	3 Nov 00	A
007647	FLUKE 87 III	TRUE RMS MULTIMETER	73980493	3 Nov 99	3 Nov 00	A
✓007665	ERTCO ASTM 1C	THERMOMETER	E98-191	22 Nov 99	22 May 00	A
✓007666	FISHER SCIENT 15-166A	THERMOMETER	H96-1090	22 Nov 99	22 May 00	A
007670	KEITHLEY 6517A	ELECTROMETER	0735984	19 Nov 99	19 Nov 00	A

Custodian Total:110

DAVID PICKETT

Asset No.	Mfg.	Model	Description	Serial No.	Cal Date	Cal Due	State
005068	LUDLUM	2200	SCALER RATEMETER	110912	11 Mar 99	11 Mar 00	A

Custodian Total:1

JIM PRIKRYL

Asset No.	Mfg.	Model	Description	Serial No.	Cal Date	Cal Due	State
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001439	METTLER	AE 240	ELECTRONIC BALANCE	101237	1 Oct 99	1 Apr 00	A
001440	METTLER	PM4600	ELECTRONIC BALANCE	120461	23 Sep 99	23 Mar 00	A
002345	OHAUS	TS 400D	ELECTRONIC BALANCE	2883	23 Sep 99	23 Mar 00	A
003940	PARR	4843	TEMPERATURE CONTROLLER	1190	15 Jun 95	15 Dec 95	I
007388	PARR	4843	TEMPERATURE CONTROLLER	2209	23 Jun 99	23 Jun 00	A

Custodian Total:5

JIM WINTERLE

Asset No.	Mfg.	Model	Description	Serial No.	Cal Date	Cal Due	State
006969	QUANTACHROM	1500-Micro	CALIBRATION SPHERE	6969	24 Nov 98	24 Nov 00	A
006970	QUANTACHROM	1500-Large	CALIBRATION SPHERE	6970	24 Nov 98	24 Nov 00	A

Custodian Total:2

MELISSA NUGENT

Asset No.	Mfg.	Model	Description	Serial No.	Cal Date	Cal Due	State
007616	ERTCO	711	THERMOMETER	7305	19 Oct 99	19 Apr 00	A
007617	ERTCO	ASTM 91 C	THERMOMETER	1709	19 Oct 99	19 Apr 00	A
007618	ERTCO	ASTM 91 C	THERMOMETER	1748	19 Oct 99	19 Apr 00	A

Custodian Total:3

PAUL BERTETTI

Asset No.	Mfg.	Model	Description	Serial No.	Cal Date	Cal Due	State
003501	LUDLUM	177-45	FRISKER	59298	5 Nov 99	5 Nov 00	A
003535	LUDLUM	14C	GEIGER COUNTER	83561	5 Nov 99	5 Nov 00	A
003536	LUDLUM	3	SURVEY METER	100939	5 Nov 99	5 Nov 00	A
003537	LUDLUM	3	SURVEY METER	82374	5 Nov 99	5 Nov 00	A
005731	LUDLUM	43-65	PROBE	PR076049	5 Nov 99	5 Nov 00	A
006889	LUDLUM	19	MICRO-R-METER	151675	5 Nov 99	5 Nov 00	A

Custodian Total:6

PETER ANGELL

Asset No.	Mfg.	Model	Description	Serial No.	Cal Date	Cal Due	State
003741	COLE-PARMER	01972-00	DISSOLVED OXYGEN METER	41054	27 Mar 95	3 Sep 99	A

Custodian Total:1

RON GREEN

Asset No.	Mfg.	Model	Description	Serial No.	Cal Date	Cal Due	State
001436	HEWLETT-PAC	3458A	MULTIMETER	2823A02203	15 Nov 99	15 Nov 00	A
001444	SARTORIUS	3808	ELECTRONIC BALANCE	3903006	19 Aug 99	19 Feb 00	A
✓002241	MOORE PRODU	0-60 PSI	PRESSURE GAUGE	0613001	4 Feb 99	4 Feb 00	A
002243	MOORE PRODU	0-60 PSI	PRESSURE GAUGE	0623002	6 Jan 99	6 Jan 00	A
002412	OHAUS	310 G	BALANCE	1593010	6 Jan 94	6 Jul 94	I
002413	MOORE PRODU	2007 H2 O	PRESSURE GAUGE	1593008	20 Jun 95	20 Jun 96	A
✓002414	MOORE PRODU	0-200 PSI	PRESSURE GAUGE	1593005	11 Mar 99	11 Mar 00	A
✓002415	MOORE PRODU	0-15 PSI	PRESSURE GAUGE	1593009	3 Feb 99	3 Feb 00	A
002416	MOORE PRODU	0-100 PSI	PRESSURE GAUGE	1593006	6 Jan 99	6 Jan 00	A
002419	MOORE PRODU	0-100 PSI	PRESSURE GAUGE	1593007	7 Jan 99	7 Jan 00	A
002420	BINKS	100 PSI	PRESSURE GAUGE	1593002	20 Jun 95	20 Jun 96	A
002478	METTLER	PM 480	ELECTRONIC BALANCE	N45601	13 Jul 99	13 Jan 00	A
002500	J&W SCIENTIFI	ADM 1000	SCIENTIFIC INTELLIGENT FLO	200-3637	29 Sep 95	29 Sep 96	I
✓002507	BRAIN	E 400	DIGITAL READOUT UNIT	11183448	15 Jun 99	15 Jun 00	A
002512	FISHER SCIENT	05-028-24	DIGITAL TACHOMETER	L135492	13 Feb 98	13 Aug 98	A
002552	BRAIN	E400	PRESSURE INDICATOR	E400-341	2 Aug 93	2 Aug 94	I
✓002862	MOORE PRODU	0-100 PSI	PRESSURE GAUGE	356305	3 Feb 99	3 Feb 00	A
002863	MOORE PRODU	0-100 PSI	PRESSURE GAUGE	356307	7 Jan 99	7 Jan 00	A
✓002864	MOORE PRODU	0-60 PSI	PRESSURE GAUGE	356302	3 Feb 99	3 Feb 00	A
✓002865	MOORE PRODU	0-60 PSI	PRESSURE GAUGE	356301	4 Feb 99	4 Feb 00	A
002866	MOORE PRODU	0-30 PSI	PRESSURE GAUGE	356306	3 Feb 99	3 Feb 00	A
002867	DWYER	475 MARKII	DIGITAL MANOMETER	356308	13 Feb 96	13 Feb 97	I
004166	GILMONT INSTR	150 MM	FLOWMETER	GF-5541-2517	3 Oct 95	3 Oct 96	I
004167	GILMONT INSTR	150 MM	FLOWMETER	GF-5541-2417	3 Oct 95	3 Oct 96	I
005129	FLUKE	2625A	HYDRA DATA LOGGER	5832650	2 Apr 99	2 Oct 99	A
005570	OMEGA	PX302-015GV	PRESSURE TRANSDUCER	961218	1 May 98	21 May 98	I
✓005603	VAISALA	HMP235	TEMPERATURE/HUMIDITY TR	S1240028	2 Nov 99	2 Nov 00	A
006322	OMEGA	PX302-015GV	PRESSURE TRANSDUCER	971112	27 Oct 99	27 Apr 00	A
007175	MICRO SWITCH	5DF5D	DIFFERENTIAL SENSOR	9742	11 Mar 99	11 Mar 00	A
007176	MICRO SWITCH	6FF6D	DIFFERENTIAL SENSOR	199909	10 Mar 99	10 Mar 00	A
007622	OMEGA	PX302-015GV	PRESSURE TRANSDUCER	980121	27 Oct 99	27 Apr 00	A

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SIMON HSIUNG

Asset No.	Mfg.	Model	Description	Serial No.	Cal Date	Cal Due	State
007487	MITUTOYO	350-712-30	MICROMETER HEAD	705854	5 Aug 99	5 Feb 00	A

Custodian Total:1

SITAKANTA MOHANTY

Asset No.	Mfg.	Model	Description	Serial No.	Cal Date	Cal Due	State
✓ 003674	FLUKE	87	TRUE RMS MULTIMETER	61880517	21 Oct 98	21 Oct 99	A

Custodian Total:1

TROY MAXWELL

Asset No.	Mfg.	Model	Description	Serial No.	Cal Date	Cal Due	State
✓ 003972	PAROSCIENTIF	740	DIGIQUARTZ PORTABLE STAN	60999	3 Aug 99	3 Feb 00	A
✓ 007455	FLUKE	2620A	HYDRA DATA LOGGER	5777850	11 Aug 99	11 Feb 00	A

Custodian Total:2

Division Total: 174