

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES NONCONFORMANCE REPORT

Project No. 20.06002.01.021

NCR No. 2004-18

PART 1: DESCRIPTION OF NONCONFORMANCE:

Calibration records were not submitted and entered into the Electronic Library Facility (ELF) when generated as required by AP-019, Table 1. Ten pieces of measuring and test equipment were chosen at random, but none had recently issued calibration documentation located in ELF. Further investigation indicates over 100 calibrations performed on CNWRA equipment after legacy calibration records were entered into ELF (after 9/16/2003), however ELF had only 11 calibration records covering this period.

Initiated by: Mark R. Ehnstrom
Action Required by: P. Mackin

(MRE)

Date: 9/15/04

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Response Due Date: 09/29/04

*10/6/2004
RCS*

Response Person: _____

*tz
Request
from P. Mackin*

Disposition:

Basis of Disposition:

See attached sheet

Action to Correct Nonconformance:

Target date for completion: _____

Proposed by: _____

Deth CM

Date: _____

10/0/2004

PART 3: APPROVAL

Element Manager: _____

Deth CM

Date: _____

10/7/2004

*see updated
response
11/29/04*

Director of QA: _____

RJ Hunt

Date: _____

10/7/2004

Comments/Instructions:

CNWRs Laboratory staff will provide calibration records to the Librarian for the calibration activities already completed. Action due 11/30/2004

PART 4: CLOSE OUT

Comments:

Verified calibration records are being provided to QA records by Lab staff

Verified by: _____

RJ Hunt

Date: _____

12/22/04

Distribution:

Original-CNWRA QA DIRECTOR/QA Records
ORIGINATOR
PRINCIPAL INVESTIGATOR(S) N/A
ELEMENT MANAGERS
P. Mackin

Part 2: Proposed Disposition and Corrective Action for NCR 2004-18

Response Due Date: 10/6/2004, changed from 9/29/2004 at the request of P. Mackin

Response Person: P. Mackin

Disposition: This nonconformance occurred because of misunderstanding regarding the processing of calibration records among the SwRI Calibration Laboratory, the CNWRA Librarian, and the CNWRA laboratory staff.

The intent of records management procedures defined in AP-019, Records Management is that calibration records be provided to the CNWRA Librarian, who will ensure they are scanned, copied to CD-ROM, filed electronically in the CNWRA ELF system, and forwarded to NRC for loading in ADAMS.

All steps in this procedure were being properly implemented except that the calibration records were not being provided to the CNWRA Librarian. It had been my understanding that the CNWRA calibration records would be forwarded directly to the CNWRA Librarian from the Calibration Laboratory. However, the historical practice has been for the Calibration Laboratory to provide these records to CNWRA laboratory staff. This practice has been maintained, and the CNWRA laboratory staff were not instructed to forward these records to the CNWRA Librarian.

To resolve this problem, the SwRI Calibration Laboratory will be instructed to provide the calibration records directly to the CNWRA Librarian. The Librarian will, in turn, forward copies to the cognizant CNWRA laboratory staff for their files.

Basis of Disposition: I believe this problem could be resolved either by (i) having CNWRA laboratory staff forward copies of the calibration records to the CNWRA Library, or (ii) having the CNWRA Librarian forward copies of the records to the CNWRA laboratory staff. The second option requires compliance actions by fewer people, and I therefore consider it to be less subject to error or failure. The CNWRA Librarian is the person most familiar with the requirements of AP-019 and is therefore more likely to comply consistently with these requirements.

Action to Correct Nonconformance: The following actions are required to correct this nonconformance.

1. Inform SwRI Calibration Library staff, CNWRA laboratory staff, and the CNWRA Librarian of the nonconformance and direct that all calibrations records be forwarded to the CNWRA Librarian. (Action P. Mackin)
2. Examine AP-019 to determine whether procedure revisions are required to in response to this nonconformance. If they are, modify AP-019. (Action P. Mackin)
3. Conduct a confirmatory surveillance to verify compliance during the second quarter of calendar year 2005. (Action CNWRA DQA)

Target Date for Completion: Actions 1 and 2 - November 30, 2004
Action 3 - April 2005

Proposed by:



P. Mackin

Date: 10/6/2004

<u>WO #</u>	<u>P/F</u>	<u>Contact</u>	<u>Cal Date</u>	<u>Due Date</u>	<u>Description</u>	<u>Mfg.</u>	<u>Model #</u>	<u>Asset #</u>	<u>Serial #</u>
444055338	Y	DARRELL DUNN	9/17/2003	3/17/2004	ELECTROMETER	KEITHLEY	614	2792	555368
444055339	Y	DARRELL DUNN	9/17/2003	9/17/2004	ELECTROMETER	KEITHLEY	617	3400	579628
444055341	N	DARRELL DUNN	9/17/2003	9/17/2003	ELECTROMETER	KEITHLEY	6517A	7670	735984
✓444055467	Y	RON GREEN	9/24/2003	3/24/2004	INPUT MODULE	FLUKE	2620A-100	10466	10466
444055468	Y	RON GREEN	9/24/2003	3/24/2004	HYDRA DATA LOGGER	FLUKE	2625A	5129	5832650
✓444055463	Y	RON GREEN	9/29/2003	9/29/2004	AC WATT TRANSDUCER	OHIO SEMITRONICS	PC5-103D	10470	3080277
✓444055464	Y	RON GREEN	9/29/2003	9/29/2004	AC WATT TRANSDUCER	OHIO SEMITRONICS	PC5-103D	10469	3080278
✓444055465	Y	RON GREEN	9/29/2003	9/29/2004	AC WATT TRANSDUCER	OHIO SEMITRONICS	PC5-103D	10468	3080276
✓444055466	Y	RON GREEN	9/29/2003	9/29/2004	AC WATT TRANSDUCER	OHIO SEMITRONICS	PC5-103D	10467	3080279
444055472	Y	DARRELL DUNN	10/2/2003	4/2/2004	BALANCE	METTLER	UMT2	2028	211001-142
444055693	Y	DARRELL DUNN	10/3/2003	4/3/2004	RESISTOR BOX	SWRI	100K-10M OHMS	7243	7243
444055696	Y	DARRELL DUNN	10/3/2003	4/3/2004	RESISTOR BOX	SWRI	10 OHM	3095	171002
444055692	Y	DARRELL DUNN	10/7/2003	4/7/2004	ELECTROMETER	KEITHLEY	617	1044	537418
444055695	Y	DARRELL DUNN	10/8/2003	4/8/2004	THERMOCOUPLE	DURO-SENSE	TYPE K	8427	333
444055694	Y	DARRELL DUNN	10/9/2003	10/9/2004	THERMOMETER	FISHER SCIENTIFIC	14-983-10B	2045	323007
444056080	Y	DARRELL DUNN	10/30/2003	4/30/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	5434	C96-783
444056081	Y	DARRELL DUNN	10/30/2003	10/30/2004	RTD	DURO-SENSE	J-00	8423	323
444056169	Y	DARRELL DUNN	11/5/2003	5/5/2004	RESISTOR BOX	SWRI	1000 OHM	3096	171001
444056170	Y	DARRELL DUNN	11/5/2003	5/5/2004	THERMOCOUPLE THERMOMETER	OMEGA	HH22	1997	T-94140
444056079	Y	DARRELL DUNN	11/6/2003	11/6/2004	ELECTROMETER	KEITHLEY	614	1438	467374
444056308	Y	DARRELL DUNN	11/14/2003	5/14/2004	BALANCE	SARTORIUS	ME215S	8780	12809099
✓444056343	N	RON GREEN	11/14/2003	11/14/2003	DATA ACQUISITION/SWITCH UNIT	HEWLETT-PACKARD	34970A	10567	US37011843
444056343	Y	RON GREEN	11/14/2003	11/14/2004	DATA ACQUISITION/SWITCH UNIT	HEWLETT-PACKARD	34970A	10567	US37011843
444055650	Y	BOBBY PABALAN	11/21/2003	11/21/2004	OVEN	LINDBERG/BLUE	M01450PC-1	8964	S01L-528113-SL
444056495	Y	BRADLEY WERLING	12/3/2003	6/3/2004	BALANCE	METTLER	PR5002	10225	1122142733
✓444056503	Y	JIM PRIKRYL	12/3/2003	6/3/2004	BALANCE	METTLER	AE240	1439	101237
444056722	Y	DARRELL DUNN	12/22/2003	6/22/2004	THERMOMETER	ERTCO	ASTM 1C	7303	E98-273
444056723	Y	DARRELL DUNN	12/22/2003	6/22/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	7298	H98-149
444056724	Y	DARRELL DUNN	12/22/2003	6/22/2004	THERMOMETER	FISHER SCIENTIFIC	14-983-10B	2471	183305
444056725	Y	DARRELL DUNN	12/22/2003	6/22/2004	THERMOMETER	ERTCO	ASTM 1C	7665	E98-191
444056726	Y	DARRELL DUNN	12/22/2003	6/22/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	8724	H 00-387
444056727	Y	DARRELL DUNN	12/22/2003	6/22/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	5433	C96-816
444056808	Y	DARRELL DUNN	1/7/2004	7/7/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	5432	C96-852
444056809	Y	DARRELL DUNN	1/7/2004	7/7/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	8109	A2000-130
444056809	Y	DARRELL DUNN	1/8/2004	7/8/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	8109	A2000-130
444056810	Y	DARRELL DUNN	1/8/2004	7/8/2004	CHART RECORDER	BLUE M ELECTRIC	BM711100000011	4828	91E34523
444056789	N	RON GREEN	1/13/2004	1/13/2004	PRESSURE GAUGE	MARSH	0 - 30 psi	10617	10617
444056789	Y	RON GREEN	1/13/2004	7/13/2004	PRESSURE GAUGE	MARSH	0 - 30 psi	10617	10617
444056790	N	RON GREEN	1/13/2004	1/13/2004	PRESSURE GAUGE	WIKA	0 - 15 psi	10619	10619
444056788	N	RON GREEN	1/14/2004	1/14/2004	VACUUM GAUGE	ASHCROFT	0 - 30 in Hg vac	10618	10618

Checked WO#s are currently located in ELF.

MCE 9/15/04

444056790	Y	RON GREEN	1/14/2004	7/14/2004	PRESSURE GAUGE	WIKA	0 - 15 psi	10619	10619
444056971	Y	DARRELL DUNN	1/15/2004	7/15/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	4989	C96-649
444056973	Y	DARRELL DUNN	1/15/2004	7/15/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	4993	C96-377
444056976	Y	DARRELL DUNN	1/15/2004	7/15/2004	THERMOMETER	FISHER SCIENTIFIC	14-983-10B	2470	183304
444056977	N	DARRELL DUNN	1/15/2004	1/15/2004	THERMOMETER	KESSLER	ASTM 1C	3247	115749
444056980	Y	DARRELL DUNN	1/15/2004	1/15/2005	MULTIMETER	FLUKE	87 III	7647	73980493
444056981	Y	DARRELL DUNN	1/15/2004	1/15/2005	MULTIMETER	FLUKE	87 III	7645	73850992
444056982	Y	DARRELL DUNN	1/15/2004	1/15/2005	MULTIMETER	FLUKE	87 III	7646	73980497
444056972	Y	DARRELL DUNN	1/16/2004	7/16/2004	THERMOMETER	FISHER SCIENTIFIC	14-983-10B	2469	183303
444056974	N	DARRELL DUNN	1/16/2004	1/16/2004	THERMOMETER	FISHER SCIENTIFIC	14-983-10B	1430	1238002
444056975	Y	DARRELL DUNN	1/16/2004	7/16/2004	THERMOMETER	FISHER SCIENTIFIC	14-983-10B	2467	183301
444056978	Y	DARRELL DUNN	1/22/2004	1/22/2005	EXPANDABLE IONANALYZER	ORION	EA 920	1880	S001A
444056979	Y	DARRELL DUNN	1/22/2004	7/22/2004	EXPANDABLE IONANALYZER	ORION	EA 940	3325	4274
444056983	Y	DARRELL DUNN	1/22/2004	7/22/2004	THERMOCOUPLE	DURO-SENSE	TYPE K	8432	328
444056984	Y	DARRELL DUNN	1/22/2004	7/22/2004	THERMOCOUPLE	DURO-SENSE	TYPE K	8430	326
444056985	Y	DARRELL DUNN	1/22/2004	7/22/2004	THERMOCOUPLE	DURO-SENSE	TYPE K	8431	327
444056986	Y	DARRELL DUNN	1/22/2004	7/22/2004	THERMOCOUPLE	DURO-SENSE	TYPE K	8434	330
444056987	Y	DARRELL DUNN	1/22/2004	7/22/2004	THERMOCOUPLE	DURO-SENSE	TYPE K	8428	334
444056988	Y	DARRELL DUNN	1/22/2004	1/22/2005	PH/ION METER	ORION	720A	1441	3368
444056989	Y	DARRELL DUNN	1/22/2004	7/22/2004	THERMOCOUPLE	DURO-SENSE	TYPE K	8433	329
444057169	Y	DARRELL DUNN	1/22/2004	7/22/2004	THERMOCOUPLE	DURO-SENSE	TYPE K	8435	332
444057133	Y	DARRELL DUNN	1/26/2004	7/26/2004	THERMOCOUPLE	DURO-SENSE	TYPE K	8429	335
444057087	Y	BRADLEY WERLING	1/28/2004	1/28/2005	THERMOMETER	FLUKE	52 II	10636	85480050
444057088	Y	BRADLEY WERLING	1/28/2004	1/28/2005	THERMOCOUPLE PROBE	FLUKE	80PK-2A	10637	10637
444057089	Y	BRADLEY WERLING	1/28/2004	1/28/2005	THERMOCOUPLE	FLUKE	Type K	10638	10638
444057090	Y	BRADLEY WERLING	1/28/2004	1/28/2005	THERMOCOUPLE	FLUKE	Type K	10639	10639
444057134	Y	DARRELL DUNN	1/30/2004	7/30/2004	TEMPERATURE METER	OMEGA	DP465-KC-MDSSD	2524	3130900
444057127	Y	RON GREEN	2/2/2004	8/2/2004	BALANCE	SARTORIUS	3808-MP8	1444	39030006
444057240	Y	JIM PRIKRYL	2/2/2004	8/2/2004	BALANCE	OHAUS	TS 400D	2345	2883
444041227	Y	PAUL BERTETTI	2/5/2004	2/5/2005	GEIGER COUNTER	LUDLUM	14C	3535	83561
444041228	Y	PAUL BERTETTI	2/5/2004	2/5/2005	RADIATION SURVEY METER	LUDLUM	3	3537	82374
444041229	Y	PAUL BERTETTI	2/5/2004	2/5/2005	RADIATION SURVEY METER	LUDLUM	3	3536	100939
444041786	Y	PAUL BERTETTI	2/5/2004	2/5/2005	RADIATION SURVEY METER	LUDLUM	19	6889	151675
444056990	Y	DARRELL DUNN	2/5/2004	2/5/2005	CONDUCTANCE METER	YSI	35	1445	90D014379
	Y	PAUL BERTETTI	2/5/2004	2/5/2005	RADIATION MONITOR	LUDLUM	177-45	3501	59298
444057458	Y	RON GREEN	2/9/2004	8/9/2004	BALANCE	METTLER	PM480	2478	N45601
	Y	DAVID PICKETT	2/18/2004	2/18/2005	SCALER RATEMETER	LUDLUM	2200	5068	110912
444057660	Y	BRADLEY WERLING	2/23/2004	8/23/2004	THERMOMETER	ERTCO	ASTM 91 C	7618	1748
444057661	Y	BRADLEY WERLING	2/23/2004	8/23/2004	THERMOMETER	ERTCO	ASTM 91 C	7617	1709
444057635	Y	LIETAI YANG	2/26/2004	2/26/2005	TEMPERATURE/HUMIDITY PROBE	VAISALA	HMP77B	10701	Z0750005
444057636	Y	LIETAI YANG	2/26/2004	2/26/2005	TEMPERATURE/HUMIDITY PROBE	VAISALA	HMP77B	10700	Z0750006

444057637	Y	LIETAI YANG	2/26/2004	2/26/2005	HUMIDTY/ TEMPERATURE METER	VAISALA	MI70	10699	Z0730015
444057640	Y	RON GREEN	3/2/2004	3/2/2005	VACUUM GAUGE	WIKA	0 - -30 in.Hg	10703	10703
444057641	Y	RON GREEN	3/2/2004	3/2/2005	VACUUM GAUGE	WIKA	0 - -30 in.Hg	10702	10702
444057638	Y	RON GREEN	3/3/2004	3/3/2005	VACUUM GAUGE	WIKA	0 - -30 in.Hg	10705	10705
444057639	Y	RON GREEN	3/3/2004	3/3/2005	VACUUM GAUGE	WIKA	0 - -30 in.Hg	10704	10704
444057795	Y	DARRELL DUNN	3/3/2004	9/3/2004	TORQUE SCREWDRIVER	SNAP-ON	QDRIVER2	10443	1001200319
444057796	Y	DARRELL DUNN	3/10/2004	3/10/2005	CALIPER	STARRETT	721	10085	3031512
444057797	Y	DARRELL DUNN	3/10/2004	3/10/2005	MICROMETER	STARRETT	734M	10084	2437171
444057980	Y	DARRELL DUNN	3/10/2004	9/10/2004	THERMOMETER	ERTCO	ASTM 1C	7304	F98-393
444057981	Y	DARRELL DUNN	3/10/2004	3/10/2005	THERMOMETER	FISHER SCIENTIFIC	15-166A	7164	C98-106
444057982	Y	DARRELL DUNN	3/10/2004	9/10/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	4991	C96-637
444057983	Y	DARRELL DUNN	3/10/2004	9/10/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	4986	C96-833
444058027	Y	CYNTHIA DINWIDDIE	3/15/2004	9/15/2004	HUMIDTY/ TEMPERATURE METER	VAISALA	HM34C	9456	X2020010
444058027	Y	CYNTHIA DINWIDDIE	3/16/2004	9/16/2004	HUMIDTY/ TEMPERATURE METER	VAISALA	HM34C	9456	X2020010
444057986	Y	DARRELL DUNN	3/19/2004	9/19/2004	ELECTROMETER	KEITHLEY	614	2792	555368
444057985	Y	DARRELL DUNN	3/22/2004	3/22/2005	THERMOCOUPLE	DURO-SENSE	TYPE K, SET OF 14	9261	293376W
444057987	Y	DARRELL DUNN	3/25/2004	9/25/2004	TORQUE SCREWDRIVER	PROTO	6104	9202	139072
444058332	N	MARIAM JUCKETT	4/1/2004	4/1/2004	TEMPERATURE/HUMIDITY PROBE	VAISALA	HMP77B	10302	Y2830017
444058334	Y	MARIAM JUCKETT	4/1/2004	4/1/2005	TEMPERATURE/HUMIDITY PROBE	VAISALA	HMP76B	10786	Y1120007
444058181	Y	DARRELL DUNN	4/2/2004	10/2/2004	BALANCE	METTLER	UMT2	2028	211001-142
444058332	Y	MARIAM JUCKETT	4/2/2004	4/2/2005	TEMPERATURE/HUMIDITY PROBE	VAISALA	HMP77B	10302	Y2830017
444058333	Y	MARIAM JUCKETT	4/2/2004	4/2/2005	TEMPERATURE/HUMIDITY INDICATO	VAISALA	MI70	10323	Y2540054
444058334	Y	MARIAM JUCKETT	4/2/2004	4/2/2005	TEMPERATURE/HUMIDITY PROBE	VAISALA	HMP76B	10786	Y1120007
444058431	Y	DARRELL DUNN	4/7/2004	10/7/2004	RESISTOR BOX	SWRI	10 OHM	3095	171002
444058432	Y	DARRELL DUNN	4/7/2004	10/7/2004	RESISTOR BOX	SWRI	100K-10M OHMS	7243	7243
444058430	Y	DARRELL DUNN	4/12/2004	4/12/2005	RTD	DURO-SENSE	J-00	8422	322
444058537	Y	RON GREEN	4/19/2004	10/19/2004	PRESSURE TRANSMITTER	ROSEMOUNT	3051CD2A22A1AE5	10820	476486
444058599	Y	LIETAI YANG	4/19/2004		TEMPERATURE METER	MILJOCO	V20666002	10829	10829
444058600	Y	LIETAI YANG	4/20/2004		PRESSURE GAUGE	U.S. GAUGE	0 - 30	10828	10828
444058433	Y	DARRELL DUNN	4/27/2004	10/27/2004	ELECTROMETER	KEITHLEY	617	1044	537418
444058717	Y	DARRELL DUNN	4/27/2004	10/27/2004	THERMOCOUPLE THERMOMETER	OMEGA	HH22	1997	T-94140
444058713	Y	DARRELL DUNN	4/28/2004	4/28/2005	THERMOMETER	FISHER SCIENTIFIC	15-166A	7169	H98-179
444058714	Y	DARRELL DUNN	4/28/2004	4/28/2005	THERMOMETER	FISHER SCIENTIFIC	15-166A	7167	H98-182
444058715	Y	DARRELL DUNN	4/28/2004	4/28/2005	THERMOMETER	FISHER SCIENTIFIC	15-166A	7171	H98-162
444058712	Y	DARRELL DUNN	4/29/2004	4/29/2005	THERMOMETER	KESSLER	ASTM 76MM 1MM	3242	115858
444058716	Y	DARRELL DUNN	4/29/2004	4/29/2005	THERMOMETER	FISHER SCIENTIFIC	15-166A	7166	H98-170
444058755	Y	DARRELL DUNN	4/30/2004	10/30/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	5434	C96-783
444058756	Y	DARRELL DUNN	5/5/2004	11/5/2004	THERMOCOUPLE	DURO-SENSE	TYPE K	8426	331
444055341	Y	DARRELL DUNN	5/8/2004	5/8/2005	ELECTROMETER	KEITHLEY	6517A	7670	735984
444058930	Y	LIETAI YANG	5/11/2004	5/11/2005	THERMOMETER	OAKTON	35629-20	10864	2332580201-0007
444058929	Y	DARRELL DUNN	5/12/2004	11/12/2004	RESISTOR BOX	SWRI	1000 OHM	3096	171001

444058988	Y	DARRELL DUNN	5/14/2004	11/14/2004	BALANCE	SARTORIUS	ME215S	8780	12809099
444059131	N	JIM PRIKRYL	5/19/2004	5/19/2004	TEMPERATURE/HUMIDITY TRANSMI	VAISALA	HMP235	8768	W1840037
444059131	Y	JIM PRIKRYL	5/19/2004	5/19/2005	TEMPERATURE/HUMIDITY TRANSMI	VAISALA	HMP235	8768	W1840037
444059130	N	JIM PRIKRYL	5/20/2004	5/20/2004	TEMPERATURE/HUMIDITY TRANSMI	VAISALA	HMP235	8769	W1840062
444059130	Y	JIM PRIKRYL	5/20/2004	5/20/2005	TEMPERATURE/HUMIDITY TRANSMI	VAISALA	HMP235	8769	W1840062
✓444059185	Y	RON GREEN	5/24/2004	11/24/2004	HYDRA DATA LOGGER	FLUKE	2625A	5129	5832650
444059219	Y	BRADLEY WERLING	5/25/2004	11/25/2004	BALANCE	METTLER	PR5002	10225	1122142733
444059221	Y	JIM PRIKRYL	5/25/2004	11/25/2004	BALANCE	METTLER	AE240	1439	101237
444059297	Y	DARRELL DUNN	6/7/2004	6/7/2005	ELECTROMETER	KEITHLEY	614	7089	704936
444059298	Y	DARRELL DUNN	6/7/2004	6/7/2005	MULTIMETER	FLUKE	8050A	1434	5005078
444059290	Y	DARRELL DUNN	6/8/2004	12/8/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	8724	H 00-387
444059291	Y	DARRELL DUNN	6/8/2004	12/8/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	7298	H98-149
444059295	Y	DARRELL DUNN	6/8/2004	12/8/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	5432	C96-852
444059299	Y	DARRELL DUNN	6/8/2004	6/8/2005	PICOAMMETER	KEITHLEY	485	1437	509163
444059293	Y	DARRELL DUNN	6/9/2004	12/9/2004	THERMOMETER	FISHER SCIENTIFIC	15-166A	5433	C96-816
444059294	Y	DARRELL DUNN	6/9/2004	12/9/2004	THERMOMETER	ERTCO	ASTM 1C	7665	E98-191
444059292	Y	DARRELL DUNN	6/10/2004	12/10/2004	THERMOMETER	ERTCO	ASTM 1C	7303	E98-273
444059296	Y	DARRELL DUNN	6/10/2004	12/10/2004	THERMOMETER	FISHER SCIENTIFIC	14-983-10B	2471	183305
444059348	Y	BRADLEY WERLING	6/11/2004	6/11/2005	THERMOCOUPLE PROBE	FLUKE	80PK-2A	10637	10637
444059362	Y	DARRELL DUNN	6/14/2004	6/14/2005	HUMIDITY GENERATOR	THUNDER SCIENTIFIC	2500	10231	210373
444059363	Y	DARRELL DUNN	6/16/2004	6/16/2005	LCR METER	QUADTECH	7600	10232	3164285
444059675	Y	BRADLEY WERLING	6/24/2004	6/24/2005	RESISTOR	BARNSTEAD INTL.	E896X5	9582	8.9602E+11
444059349	Y	BRADLEY WERLING	7/10/2004	7/10/2005	WEIGHT, CLASS 1	TROEMNER	20G	9341	66388
444059350	Y	BRADLEY WERLING	7/10/2004	7/10/2005	WEIGHT, CLASS 1	TROEMNER	400G	9342	66389
444059782	Y	DARRELL DUNN	7/12/2004	7/12/2005	ELECTROMETER	KEITHLEY	614	7088	704934
444059851	Y	DARRELL DUNN	7/13/2004	1/13/2005	TEMPERATURE METER	OMEGA	DP465-KC-MDSSD	2524	3130900
444059852	N	DARRELL DUNN	7/13/2004	7/13/2004	EXPANDABLE IONANALYZER	ORION	EA 920	5352	TV64A
444059853	Y	DARRELL DUNN	7/13/2004	7/13/2005	PH/ION METER	ORION	720A	1869	5885
444059845	Y	DARRELL DUNN	7/14/2004	1/14/2005	THERMOMETER	FISHER SCIENTIFIC	15-166A	4989	C96-649
444059847	Y	DARRELL DUNN	7/14/2004	1/14/2005	THERMOMETER	FISHER SCIENTIFIC	15-166A	8109	A2000-130
444059849	Y	DARRELL DUNN	7/14/2004	1/14/2005	THERMOMETER	FISHER SCIENTIFIC	15-166A	4993	C96-377
444059914	Y	RON GREEN	7/15/2004	1/15/2005	BALANCE	METTLER	PM480	2478	N45601
444059915	Y	RON GREEN	7/15/2004	1/15/2005	BALANCE	SARTORIUS	3808-MP8	1444	39030006
444059916	Y	JIM PRIKRYL	7/15/2004	1/15/2005	BALANCE	OHAUS	TS 400D	2345	2883
444059846	Y	DARRELL DUNN	7/20/2004	1/20/2005	THERMOMETER	FISHER SCIENTIFIC	14-983-10B	2470	183304
444059848	Y	DARRELL DUNN	7/20/2004	1/20/2005	THERMOMETER	FISHER SCIENTIFIC	14-983-10B	2467	183301
444059850	Y	DARRELL DUNN	7/20/2004	1/20/2005	THERMOMETER	FISHER SCIENTIFIC	14-983-10B	2469	183303
444059854	Y	DARRELL DUNN	7/20/2004	1/20/2005	THERMOCOUPLE	DURO-SENSE	TYPE K	8429	335
444059855	Y	DARRELL DUNN	7/20/2004	1/20/2005	THERMOCOUPLE	DURO-SENSE	TYPE K	8432	328
444059856	Y	DARRELL DUNN	7/20/2004	1/20/2005	THERMOCOUPLE	DURO-SENSE	TYPE K	8434	330
444059857	Y	DARRELL DUNN	7/20/2004	1/20/2005	THERMOCOUPLE	DURO-SENSE	TYPE K	8428	334

444059858	Y	DARRELL DUNN	7/20/2004	1/20/2005	THERMOCOUPLE	DURO-SENSE	TYPE K	8427	333
444060010	Y	DARRELL DUNN	7/21/2004	7/21/2005	EXPANDABLE IONANALYZER	ORION	EA 940	1948	2330
444059999	Y	DARRELL DUNN	7/22/2004	7/22/2005	HUMIDITY GENERATOR	THUNDER SCIENTIFIC	2500	10231	210373
444060007	Y	DARRELL DUNN	7/23/2004	1/23/2005	THERMOCOUPLE	DURO-SENSE	TYPE K	8431	327
444060008	Y	DARRELL DUNN	7/23/2004	1/23/2005	THERMOCOUPLE	DURO-SENSE	TYPE K	8430	326
444060009	Y	DARRELL DUNN	7/23/2004	1/23/2005	THERMOCOUPLE	DURO-SENSE	TYPE K	8433	329
444060000	Y	DARRELL DUNN	7/26/2004	1/26/2005	CHART RECORDER	BLUE M ELECTRIC	BM711100000011	4828	91E34523
444060272	Y	BRADLEY WERLING	8/6/2004	8/6/2005	THERMOMETER	ERTCO	ASTM 91 C	7618	1748
444060273	Y	BRADLEY WERLING	8/6/2004	8/6/2005	THERMOMETER	ERTCO	ASTM 91 C	7617	1709
444060271	Y	DARRELL DUNN	8/9/2004	2/9/2005	THERMOMETER	SARGENTWELCH	-20 TO 110c	11082	11082
444060270	Y	DARRELL DUNN	8/10/2004	2/10/2005	THERMOMETER	POLYSCIENCE	-20 TO 150c	11083	11083
444059852	Y	DARRELL DUNN	8/11/2004	8/11/2005	EXPANDABLE IONANALYZER	ORION	EA 920	5352	TV64A
444060484	Y	KEN CHIANG	8/24/2004	2/24/2005	THERMOCOUPLE	OMEGA	Type K	11118	11118
444060485	Y	KEN CHIANG	8/24/2004	2/24/2005	THERMOCOUPLE	OMEGA	Type K	11117	11117
444060366	Y	DARRELL DUNN	8/25/2004	2/25/2005	EXPANDABLE IONANALYZER	ORION	EA 940	3325	4274
444060486	Y	KEN CHIANG	8/26/2004	2/26/2005	THERMOCOUPLE	OMEGA	Type B	11116	11116
444060614	Y	DARRELL DUNN	9/3/2004	3/3/2005	TORQUE SCREWDRIVER	SNAP-ON	QDRIVER2	10443	1001200319
444060615	Y	DARRELL DUNN	9/9/2004	3/9/2005	THERMOMETER	FISHER SCIENTIFIC	15-166A	4986	C96-833
444060616	Y	DARRELL DUNN	9/9/2004	9/9/2005	THERMOMETER	FISHER SCIENTIFIC	15-166A	7170	C98-132
444060617	Y	DARRELL DUNN	9/9/2004	3/9/2005	THERMOMETER	FISHER SCIENTIFIC	15-166A	4991	C96-637
444060640	Y	CYNTHIA DINWIDDIE	9/9/2004	3/9/2005	HUMIDTY/ TEMPERATURE METER	VAISALA	HM34C	9456	X2020010
444060618	Y	DARRELL DUNN	9/10/2004	3/10/2005	THERMOMETER	ERTCO	ASTM 1C	7304	F98-393
444060619	Y	DARRELL DUNN	9/10/2004	9/10/2005	THERMOMETER	FISHER SCIENTIFIC	15-166A	7165	H98-187
444060612	Y	DARRELL DUNN	9/13/2004	9/13/2005	RTD	DURO-SENSE	J-00	8424	324

Part 2: Revised Proposed Disposition and Corrective Action for NCR 2004-18 - Updated 11/28/2004

Response Due Date: 10/6/2004, changed from 9/29/2004 at the request of P. Mackin

Response Person: P. Mackin

Disposition: This nonconformance occurred because of misunderstanding regarding the processing of calibration records among the SwRI Calibration Laboratory, the CNWRA Librarian, and the CNWRA laboratory staff.

The intent of records management procedures defined in AP-019, Records Management is that calibration records be provided to the CNWRA Librarian, who will ensure they are scanned, copied to CD-ROM, filed electronically in the CNWRA ELF system, and forwarded to NRC for loading in ADAMS.

All steps in this procedure were being properly implemented except that the calibration records were not being provided to the CNWRA Librarian. It had been my understanding that the CNWRA calibration records would be forwarded directly to the CNWRA Librarian from the Calibration Laboratory. However, the historical practice has been for the Calibration Laboratory to provide these records to CNWRA laboratory staff. This practice has been maintained, and the CNWRA laboratory staff were not instructed to forward these records to the CNWRA Librarian.

To resolve this problem, the SwRI Calibration Laboratory will be instructed to provide the calibration records directly to the CNWRA Librarian. The Librarian will, in turn, forward copies to the cognizant CNWRA laboratory staff for their files.

Revision (11/28/2004): Further evaluation of the circumstances surrounding this NCR has led me to conclude that it would be better to minimize the responsibility of the SwRI Calibration Laboratory in carrying out CNWRA procedures and to place this responsibility more directly on CNWRA staff members. Accordingly, CNWRA laboratory personnel will continue to receive calibration records directly from the SwRI Calibration Laboratory and will forward copies of these records to the CNWRA Librarian for processing as documentary material under AP-019.

Basis of Disposition: I believe this problem could be resolved either by (i) having CNWRA laboratory staff forward copies of the calibration records to the CNWRA Library, or (ii) having the CNWRA Librarian forward copies of the records to the CNWRA laboratory staff. The second option requires compliance actions by fewer people, and I therefore consider it to be less subject to error or failure. The CNWRA Librarian is the person most familiar with the requirements of AP-019 and is therefore more likely to comply consistently with these requirements.

Basis Revision (11/28/2004): After reconsideration, option (i) above has been implemented. This will minimize the responsibility for the SwRI Calibration Laboratory personnel to comply with internal CNWRA procedures and will place that responsibility directly with CNWRA staff.

Action to Correct Nonconformance: The following actions are required to correct this nonconformance.

1. Inform SwRI Calibration Library staff, CNWRA laboratory staff, and the CNWRA Librarian of the nonconformance and direct that all calibrations records be forwarded to the CNWRA Librarian. (Action P. Mackin)

Revision (11/28/2004): CNWRA laboratory staff will continue to receive calibration records from the SwRI Calibration Laboratory and will forward copies of these records to the CNWRA Librarian for processing under AP-019.

2. Examine AP-019 to determine whether procedure revisions are required in response to this nonconformance. If they are, modify AP-019. (Action P. Mackin)

Action Taken (11/28/2004): A review of AP-019 indicates that it is consistent with the proposed response, and no revision to the procedure is required.

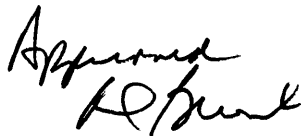
3. Conduct a confirmatory surveillance to verify compliance during the second quarter of calendar year 2005. (Action CNWRA DQA)

Target Date for Completion: Actions 1 and 2 - November 30, 2004
Action 3 - April 2005

Proposed by: P. Mackin **Date:** 10/6/2004

Revision Proposed by: P. Mackin **Date:** 11/28/2004

 11/28/2004

 11/29/2004