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# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

**PROJECT NO:** 20-01402-171

**REPORT NO:** 2002-08

**PAGE** 1 **OF** 10

**SURVEILLANCE SCOPE:** The control test and monitoring equipment by Center for Nuclear Waste Regulatory Analyses (CNWRA) personnel

**REFERENCE DOCUMENTS:** CNWRA Quality Assurance Manual Revision 4, Change 2; QAP-004, Surveillance Control Procedure Revision 2.

**STARTING DATE:** 03/21/2002

**ENDING DATE:** 03/22/2002

**QA REPRESENTATIVE:** Thomas A. Mayces, SwRI- Institute Quality Systems

**PERSONS CONDUCTING TEST/EXAM/ACTIVITY:** CNWRA Staff

**SATISFACTORY FINDINGS:** Surveillance was performed at various CNWRA laboratories and experiment rooms of SwRI Buildings 51 and 57 to assure that calibrated test and monitoring equipment were properly identified to prevent accidental use of equipment with overdue calibrations. All were properly labeled. See attachment A for an inventory of the test and monitoring equipment that is controlled by CNWRA. The list includes information about the Asset Number, Custodian, Manufacturer, Model, Equipment Type, Serial Number, and if it is active (A) or inactive (I). Verification that the 13 CNWRA custodians did not have any overdue equipment was performed using the SwRI Calibration Laboratory database with satisfactory results.

**UNSATISFACTORY FINDINGS:** None

**NONCONFORMANCE REPORT NO:** N/A

**ATTACHMENTS:** Attachment A

**RECOMMENDATIONS/ACTIONS:** None

**APPROVED:**   
CNWRA DIRECTOR OF  
QUALITY ASSURANCE

**DATE:** 3/22/2002

**DISTRIBUTION:**

**ORIGINAL** – CNWRA QA DIRECTOR QA Records

**CC:** ORIGINATOR – T. Mayces

Element Managers, B. Sagar, H. Garcia, D. Dunn,  
J. Prikryl, B. Werling, M. Hill and M. Ehnstrom.

# ATTACHMENT A

## INVENTORY BY DIV/DEPT

Asset No.	Custodian	Manufacturer	Model	Equipment Type	Serial Number	State
007630	ANNE MARIE LEJEUNE	EDWARDS	D35726000	PRESSURE TRANSDUCER	995000176	A
007631	ANNE MARIE LEJEUNE	EDWARDS	D35727000	PRESSURE TRANSDUCER	995000241	A
008236	ANNE MARIE LEJEUNE	EDWARDS	D35726000	PRESSURE TRANSDUCER	005000055	A
009047	ANNE MARIE LEJEUNE	EDWARDS	D38662000	CONTROLLER	996243404	A
007575	ANNE MARIE LEJEUNE	UNKNOWN	0-30 IN.HG.	PRESSURE GAUGE	7575	I
007576	ANNE MARIE LEJEUNE	UNKNOWN	0-30 IN.HG.	PRESSURE GAUGE	7576	I
007577	ANNE MARIE LEJEUNE	UNKNOWN	0-30 IN.HG.	PRESSURE GAUGE	7577	I
007578	ANNE MARIE LEJEUNE	UNKNOWN	0-30 IN.HG.	PRESSURE GAUGE	7578	I
007579	ANNE MARIE LEJEUNE		0-100 MBAR	PRESSURE GAUGE	991785	I
007580	ANNE MARIE LEJEUNE		0-60 MBAR	PRESSURE GAUGE	7580	I
007581	ANNE MARIE LEJEUNE		0-100 MBAR	PRESSURE GAUGE	7581	I
007632	ANNE MARIE LEJEUNE	EDWARDS	D35726000	STRAIN GAUGE	995000185	I
008964	BOBBY PABALAN	LINDBERG/BLUE	M01450PC-1	OVEN	S01L-528113-SL	A
007617	BRADLEY WERLING	ERTCO	ASTM 91 C	THERMOMETER	1709	A

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007618	BRADLEY WERLING	ERTCO	ASTM 91 C	THERMOMETER	1748	A
007616	BRADLEY WERLING	ERTCO	711	THERMOMETER	7305	I
003184	BRITT HILL	UNKNOWN	CR10	DATA LOGGER	19545	I
001044	DARRELL DUNN	KEITHLEY	617	ELECTROMETER	537418	A
001430	DARRELL DUNN	FISHER SCIENTIFIC	14-983-10E	THERMOMETER	1238002	A
001434	DARRELL DUNN	FLUKE	8050A	MULTIMETER	5005078	A
001437	DARRELL DUNN	KEITHLEY	485	PICOAMMETER	509163	A
001438	DARRELL DUNN	KEITHLEY	614	ELECTROMETER	467374	A
001441	DARRELL DUNN	ORION	720A	PH/ION METER	003368	A
001443	DARRELL DUNN	PROTO	6103	TORQUE SCREWDRIVER	#2	A
001445	DARRELL DUNN	YSI	35	CONDUCTANCE METER	90D014379	A
001869	DARRELL DUNN	ORION	720A	PH/ION METER	005885	A
001880	DARRELL DUNN	ORION	EA 920	EXPANDABLE IONANALYZER	S001A	A
001893	DARRELL DUNN	FISHER SCIENTIFIC	ACCUMET 950	PH/ION METER	3340	A
001948	DARRELL DUNN	ORION	EA 940	EXPANDABLE IONANALYZER	2330	A
001997	DARRELL DUNN	OMEGA	HH22	DIGITAL THERMOMETER	T-94140	A
002028	DARRELL DUNN	METTLER	UMT2	BALANCE	211001-142	A
002029	DARRELL DUNN	SARTORIUS	RC210P	BALANCE	10704379	A
002042	DARRELL DUNN	FISHER SCIENTIFIC	14-983-10B	THERMOMETER	0323004	A
002045	DARRELL DUNN	FISHER SCIENTIFIC	14-983-10B	THERMOMETER	0323007	A
002185	DARRELL DUNN	FOWLER & NSK	08/08/1952	CALIPER	20-8C-1	A
002186	DARRELL DUNN	UNKNOWN	25 X 0.01MM	MICROMETER	20-M-1	A
002291	DARRELL DUNN	ABBEON	SE 120	STRIP CHART RECORDER	0049616	A
002292	DARRELL DUNN	ABBEON	SE 120	STRIP CHART RECORDER	0515265	A
002313	DARRELL DUNN	KESSLER	ASTM 82C	THERMOMETER	9243195	A
002467	DARRELL DUNN	FISHER SCIENTIFIC	14-983-10B	THERMOMETER	183301	A

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002469	DARRELL DUNN	FISHER SCIENTIFIC	14-983-10B	THERMOMETER	183303	A
002470	DARRELL DUNN	FISHER SCIENTIFIC	14-983-10B	THERMOMETER	183304	A
002471	DARRELL DUNN	FISHER SCIENTIFIC	14-983-10B	THERMOMETER	183305	A
002524	DARRELL DUNN	OMEGA	DP465-KC-MDSSD	THERMOCOUPLE THERMOMETER	3130900	A
002792	DARRELL DUNN	KEITHLEY	614	ELECTROMETER	0555368	A
003095	DARRELL DUNN	SWRI	10 OHM	RESISTOR BOX	171002	A
003096	DARRELL DUNN	SWRI	1000 OHM	RESISTOR BOX	171001	A
003242	DARRELL DUNN	KESSLER	ASTM 76MM 1MM	THERMOMETER	115858	A
003247	DARRELL DUNN	KESSLER	ASTM 1C	THERMOMETER	115749	A
003325	DARRELL DUNN	ORION	EA 940	EXPANDABLE IONANALYZER	4274	A
003400	DARRELL DUNN	KEITHLEY	617	ELECTROMETER	0579628	A
004092	DARRELL DUNN	PROTO	6104	TORQUE SCREWDRIVER	314047	A
004199	DARRELL DUNN	TROEMNER	200G	WEIGHT SET, CLASS 1	63813	A
004828	DARRELL DUNN	BLUE M ELECTRIC CO.	BM711100000011	CHART RECORDER	91E34523	A
004986	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C96-833	A
004989	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C96-649	A
004991	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C96-637	A
004992	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C96-727	A
004993	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C96-377	A
004996	DARRELL DUNN	FISHER SCIENTIFIC	15041C	THERMOMETER	9253474	A
005352	DARRELL DUNN	ORION	EA 920	EXPANDABLE IONANALYZER	TV64A	A
005432	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C96-852	A

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005433	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C96-816	A
005434	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C96-783	A
007088	DARRELL DUNN	KEITHLEY	614	ELECTROMETER	0704934	A
007089	DARRELL DUNN	KEITHLEY	614	ELECTROMETER	0704936	A
007164	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C98-106	A
007165	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	H98-187	A
007166	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	H98-170	A
007167	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	H98-182	A
007169	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	H98-179	A
007170	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C98-132	A
007171	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	H98-162	A
007243	DARRELL DUNN	SWRI	10K-100M OHMS	RESISTOR BOX	7243	A
007298	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	H98-149	A
007303	DARRELL DUNN	ERTCO	76MM 1MM	THERMOMETER	E98-273	A
007304	DARRELL DUNN	ERTCO	ASTM 1C	THERMOMETER	F98-393	A
007645	DARRELL DUNN	FLUKE	87 III	MULTIMETER	73850992	A
007646	DARRELL DUNN	FLUKE	87 III	MULTIMETER	73980497	A
007647	DARRELL DUNN	FLUKE	87 III	MULTIMETER	73980493	A
007665	DARRELL DUNN	ERTCO	ASTM 1C	THERMOMETER	E98-191	A
007666	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	H96-1090	A
007670	DARRELL DUNN	KEITHLEY	6517A	ELECTROMETER	0735984	A
008108	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	A2000-123	A

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008109	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	A2000-130	A
008422	DARRELL DUNN	DURO-SENSE	J-00	RTD	322	A
008423	DARRELL DUNN	DURO-SENSE	J-00	RTD	323	A
008424	DARRELL DUNN	DURO-SENSE	J-00	RTD	324	A
008425	DARRELL DUNN	DURO-SENSE	J-00	RTD	325	A
008426	DARRELL DUNN	DURO-SENSE	TYPE K	THERMOCOUPLE	331	A
008427	DARRELL DUNN	DURO-SENSE	TYPE K	THERMOCOUPLE	333	A
008428	DARRELL DUNN	DURO-SENSE	TYPE K	THERMOCOUPLE	334	A
008429	DARRELL DUNN	DURO-SENSE	TYPE K	THERMOCOUPLE	335	A
008430	DARRELL DUNN	DURO-SENSE	TYPE K	THERMOCOUPLE	326	A
008431	DARRELL DUNN	DURO-SENSE	TYPE K	THERMOCOUPLE	327	A
008432	DARRELL DUNN	DURO-SENSE	TYPE K	THERMOCOUPLE	328	A
008433	DARRELL DUNN	DURO-SENSE	TYPE K	THERMOCOUPLE	329	A
008434	DARRELL DUNN	DURO-SENSE	TYPE K	THERMOCOUPLE	330	A
008435	DARRELL DUNN	DURO-SENSE	TYPE K	THERMOCOUPLE	332	A
008724	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	H 00-387	A
008780	DARRELL DUNN	SARTORIUS	ME3215S	BALANCE	12809099	A
008788	DARRELL DUNN	COLE-PARMER	03313-66	THERMOHYGROMETER	21189381	A
009202	DARRELL DUNN	PROTO	6104	TORQUE SCREWDRIVER	139072	A
009261	DARRELL DUNN	DURO-SENSE	B02 (18ea)	THERMOCOUPLE	293376W	A
001435	DARRELL DUNN	FLUKE	8050A	MULTIMETER	5005110	I
002040	DARRELL DUNN	FISHER SCIENTIFIC	14-983-10C	THERMOMETER	0323002	I
002043	DARRELL DUNN	FISHER SCIENTIFIC	14-983-10B	THERMOMETER	0323005	I
002046	DARRELL DUNN	FISHER SCIENTIFIC	14-983-10B	THERMOMETER	0323008	I
002310	DARRELL DUNN	KESSLER	ASTM 82C	THERMOMETER	9243196	I
002312	DARRELL DUNN	KESSLER	ASTM 82C	THERMOMETER	9243200	I

002468	DARRELL DUNN	FISHER SCIENTIFIC	14-983-10B	THERMOMETER	183302	I
003240	DARRELL DUNN	KESSLER	ASTM 1C 76MM	THERMOMETER	61771	I
003244	DARRELL DUNN	KESSLER	ASTM 1C 76MM	THERMOMETER	115880	I
003245	DARRELL DUNN	KESSLER	ASTM 1C 76MM	THERMOMETER	115809	I
003248	DARRELL DUNN	KESSLER	ASTM 1C 76MM	THERMOMETER	115814	I
003778	DARRELL DUNN	KESSLER	ASTM 82C	THERMOMETER	32922	I
004313	DARRELL DUNN	KEITHLEY	6517	ELECTROMETER	0599913	I
004987	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C96-616	I
004988	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C96-742	I
004994	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C96-784	I
004998	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C96-819	I
007168	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	C98-101	I
007299	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	H98-168	I
007300	DARRELL DUNN	FISHER SCIENTIFIC	15-166A	THERMOMETER	H98-180	I
007302	DARRELL DUNN	ERTCO	ASTM 1C	THERMOMETER	E98-293	I
005068	DAVID PICKETT	LUDLUM	2200	SCALER RATEMETER	110912	A
001439	JIM PRIKRYL	METTLER	AE240	BALANCE	101237	A
001440	JIM PRIKRYL	METTLER	PM4600DR	BALANCE	120461	A
002345	JIM PRIKRYL	OHAUS	TS 400D	BALANCE	2883	A
008768	JIM PRIKRYL	VAISALA	HMP235	TEMPERATURE/HUMIDITY TRANSMITTER	W1840037	A
008769	JIM PRIKRYL	VAISALA	HMP235	HUMIDITY/TEMP TRANSMITTER	W1840062	A
007388	JIM PRIKRYL	PARR	4843	TEMPERATURE CONTROLLER	2209	I
006969	MELISSA HILL	QUANTACHROME	01500-Micro	CALIBRATION SPHERE	6969	A
006970	MELISSA HILL	QUANTACHROME	01500-Large	CALIBRATION SPHERE	6970	A

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008463	MELISSA HILL	EDWARDS	D35726000	PRESSURE TRANSDUCER	005000334	A
008464	MELISSA HILL	EDWARDS	D35726000	PRESSURE TRANSDUCER	005000333	A
008466	MELISSA HILL	EDWARDS	D35726000	PRESSURE TRANSDUCER	005000371	A
009014	MELISSA HILL	PCB PIEZOTRONICS	113A21	PRESSURE TRANSDUCER	10453	A
009015	MELISSA HILL	PCB PIEZOTRONICS	113A21	PRESSURE TRANSDUCER	10454	A
009016	MELISSA HILL	PCB PIEZOTRONICS	113A21	PRESSURE TRANSDUCER	10545	A
009017	MELISSA HILL	PCB PIEZOTRONICS	113A21	PRESSURE TRANSDUCER	10546	A
009018	MELISSA HILL	PCB PIEZOTRONICS	113A21	PRESSURE TRANSDUCER	10451	A
009019	MELISSA HILL	PCB PIEZOTRONICS	113A21	PRESSURE TRANSDUCER	10543	A
009020	MELISSA HILL	PCB PIEZOTRONICS	113A21	PRESSURE TRANSDUCER	10452	A
006889	PAUL BERTETTI	LUDLUM	19	MICRO-R-METER	151675	A
003501	PAUL BERTETTI	LUDLUM	177-45	FRISKER	59298	I
003535	PAUL BERTETTI	LUDLUM	14C	GEIGER COUNTER	83561	I
003536	PAUL BERTETTI	LUDLUM	3	SURVEY METER	100939	I
003537	PAUL BERTETTI	LUDLUM	3	SURVEY METER	82374	I
005731	PAUL BERTETTI	LUDLUM	43-65	PROBE	PR076049	I
001444	RON GREEN	SARTORIUS	3808	BALANCE	3903006	A
002416	RON GREEN	MOORE PRODUCTS	0-100 PSI	PRESSURE GAUGE	1593006	A
002419	RON GREEN	MOORE PRODUCTS	0-100 PSI	PRESSURE GAUGE	1593007	A
002478	RON GREEN	METTLER	PM480	BALANCE	N45601	A
002507	RON GREEN	BRAIN	E400	PRESSURE INDICATOR	11183448	A
002863	RON GREEN	MOORE PRODUCTS	0-100 PSI	PRESSURE GAUGE	356307	A
003674	RON GREEN	FLUKE	87	MULTIMETER	61880517	A
005129	RON GREEN	FLUKE	2625A	HYDRA DATA LOGGER	5832650	A
005603	RON GREEN	VAISALA	HMP235	HUMIDITY/TEMP TRANSMITTER	S1240028	A
002420	RON GREEN	BINKS	100 PSI	PRESSURE GAUGE	1593002	D
001436	RON GREEN	HEWLETT-PACKARD	3458A	MULTIMETER	2823A02203	I
002241	RON GREEN	MOORE PRODUCTS	0-60 PSI	PRESSURE GAUGE	0613001	I
002243	RON GREEN	MOORE PRODUCTS	0-60 PSI	PRESSURE GAUGE	0623002	I
002413	RON GREEN	MOORE PRODUCTS	0-200" H2O	PRESSURE GAUGE	1593008	I
002414	RON GREEN	MOORE PRODUCTS	0-200 PSI	PRESSURE GAUGE	1593005	I

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002415	RON GREEN	MOORE PRODUCTS	0-15 PSI	PRESSURE GAUGE	1593009	I
002512	RON GREEN	FISHER SCIENTIFIC	05/28/2024	TACHOMETER	L135492	I
002862	RON GREEN	MOORE PRODUCTS	0-100 PSI	PRESSURE GAUGE	356305	I
002864	RON GREEN	MOORE PRODUCTS	0-60 PSI	PRESSURE GAUGE	356302	I
002865	RON GREEN	MOORE PRODUCTS	0-60 PSI	PRESSURE GAUGE	356301	I
002866	RON GREEN	MOORE PRODUCTS	0-30 PSI	PRESSURE GAUGE	356306	I
002867	RON GREEN	DWYER	475 MARKII	DIGITAL MANOMETER	356308	I
005570	RON GREEN	OMEGA	PX302-015GV	PRESSURE TRANSDUCER	961218	I
006322	RON GREEN	OMEGA	PX302-015GV	PRESSURE TRANSDUCER	971112	I
007175	RON GREEN	MICRO SWITCH	5DF5D	DIFFERENTIAL PRESSURE SENSOR	9742	I
007176	RON GREEN	MICRO SWITCH	6FF6D	DIFFERENTIAL PRESSURE SENSOR	199909	I
007622	RON GREEN	OMEGA	PX302-015GV	PRESSURE TRANSDUCER	980121	I
007467	SIMON HSIUNG	MITUTOYO	350-712-30	MICROMETER HEAD	705854	I
008129	TED RESSLER	WEKSLER INSTRUMENTS	AA4	PRESSURE GAUGE	906603HP	I
008130	TED RESSLER	WEKSLER INSTRUMENTS	BLI	PRESSURE GAUGE	906603LP	I
008132	TED RESSLER	U.S. GAUGE	0-4000PSI	PRESSURE GAUGE	841.0102	I
008133	TED RESSLER	U.S. GAUGE	0-60PSI	PRESSURE GAUGE	841.0077	I
003972	TROY MAXWELL	PAROSCIENTIFIC	740-45A	DIGIQUARTZ PORTABLE STANDARD	60999	I
007455	TROY MAXWELL	FLUKE	2620A	HYDRA DATA LOGGER	5777650	I

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