



2609 North River Road, Port Allen, Louisiana 70767

(800) 401-4277 -- FAX (225) 381-2996

American Radiation Services, Inc.

Laboratory Analysis Report

ARS1-08-02457

Prepared for:

Nuclear Regulatory Commission (NRC)

**Gene Bonano
USNRC Region 3
2443 Warrenville Rd.
Lisle, IL 60532
eugenio.bonano@nrc.gov**

Phone: 630.829.9826

Fax: 630.515.1259


Project Manager Review


Management Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

Project Manager

ProjectManagers@amrad.com

Phone: 225.381.2991

Fax: 225.381.2996

LELAP Cert# 30658

NELAP Cert# E87558

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January 5, 2009

Nuclear Regulatory Commission
Gene Bonano
2443 Warrenville Rd.
Lisle, IL 60532

Sample Location: Dresden Nuclear Power Station

Client Sample: D-08-1-01, D-08-1-02, D-08-1-03, D-08-1-04, D-08-1-05, D-08-1-06, D-08-1-07, D-08-1-08, D-08-1-09, D-08-1-10, D-08-1-11, D-08-1-12, D-08-1-13, D-08-1-14, D-08-1-15, D-08-1-16, D-08-1-17, D-08-1-18, D-08-1-19, D-08-1-20, D-08-1-21, D-08-1-22, D-08-1-23, D-08-1-24

ARS SGD: ARS1-08-02457

Dear Mr. Bonano,

On November 26, 2008, American Radiation Services (ARS) received 24 Ground Water Samples to be analyzed for Tritium. The samples were placed on HOLD until notified by the client on 12/8/08 15:00. The new client deadline for these samples was 1-6-09.

The samples were processed and counted using the appropriate counting equipment and QA/QC for this type of analysis. Results of the analysis and QA/QC are attached in the data package.

The sample and QA/QC's were counted with a count time sufficient to meet a statistical sound detection limits.

Counting equipment Quality Assurance was within acceptance criteria when the above referenced samples were processed.

If you have any questions please do not hesitate to call at 225-381-2991.

Sincerely,

A handwritten signature in blue ink that reads 'Virgene Mulligan'. The signature is fluid and cursive.

Virgene Mulligan
Laboratory Director



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COVER PAGE

Statement of Work for Analytical Laboratories

**PROJECT SAMPLE IDENTIFICATION
CROSS-REFERENCE
TO ARS SAMPLE LABORATORY IDs**

CLIENT SAMPLE NUMBER	CLIENT SAMPLE DESCRIPTION	American Radiation Services SAMPLE ID NUMBER(S)
D-08-1-01	MW-DN-124-I	ARS1-08-02457-001
D-08-1-02	MW-DN-124-I	ARS1-08-02457-002
D-08-1-03	MW-DN-124-S	ARS1-08-02457-003
D-08-1-04	MW-DN-124-S	ARS1-08-02457-004
D-08-1-05	DSP-124	ARS1-08-02457-005
D-08-1-06	DSP-124	ARS1-08-02457-006
D-08-1-07	W-3	ARS1-08-02457-007
D-08-1-08	W-3	ARS1-08-02457-008
D-08-1-09	DSP-122	ARS1-08-02457-009
D-08-1-10	DSP-122	ARS1-08-02457-010
D-08-1-11	T-6	ARS1-08-02457-011
D-08-1-12	T-6	ARS1-08-02457-012
D-08-1-13	R-1	ARS1-08-02457-013
D-08-1-14	R-1	ARS1-08-02457-014
D-08-1-15	T-5	ARS1-08-02457-015
D-08-1-16	T-5	ARS1-08-02457-016
D-08-1-17	W2R	ARS1-08-02457-017
D-08-1-18	W2R	ARS1-08-02457-018
D-08-1-19	DSP-131	ARS1-08-02457-019
D-08-1-20	DSP-131	ARS1-08-02457-020
D-08-1-21	DSP-132	ARS1-08-02457-021
D-08-1-22	DSP-132	ARS1-08-02457-022
D-08-1-23	E7	ARS1-08-02457-023
D-08-1-24	E7	ARS1-08-02457-024

SAMPLE RECEIPT

The samples were received in good condition. The samples were screened for radioactive contamination as per procedure ARS-062 "Sample Receiving".



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ANALYTICAL METHODS

The tritium analyses were performed using American Radiation Services procedure ARS-054, "Tritium In Water".


ANALYTICAL RESULTS

The result data that are flagged with "U" indicates that the activity is below the MDC.

American Radiation Services Project Manager/Laboratory Manager's Comments:

"I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this sample data package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature."

"I certify that this electronic image, and all hardcopies produced from this image, accurately represents the data and is in compliance with the client specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager/Technical Director or the Manager's designee."


Signature

Laboratory Director, American Radiation Services
Title

1-05-09
Date



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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-01
Sample Collection Date: 11/24/08 09:25
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-001
Date Received: 11/26/2008
Report Date: 01/05/09 13:10

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	79203.522	8170.265	173.502	82.848		pCi/L	ARS-054/EPA 906.0	12/23/08 20:48	BS	N/A

NOTES: Dresden Nuclear Power Station 05000237/2008005 Control #: D-08-1 Docket #: 050-00237


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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-02
Sample Collection Date: 11/24/08 09:25
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-002
Date Received: 11/26/2008
Report Date: 01/05/09 13:10

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	80971.972	8351.448	173.446	82.821		pCi/L	ARS-054/EPA 906.0	12/23/08 22:28	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-03
Sample Collection Date: 11/24/08 09:41
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-003
Date Received: 11/26/2008
Report Date: 01/05/09 13:10

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	54675.711	5657.264	173.926	83.050		pCi/L	ARS-054/EPA 906.0	12/24/08 0:08	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-04
Sample Collection Date: 11/24/08 09:41
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-004
Date Received: 11/26/2008
Report Date: 01/05/09 13:10

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	52525.462	5437.208	174.718	83.428		pCi/L	ARS-054/EPA 906.0	12/24/08 1:48	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-05
Sample Collection Date: 11/24/08 09:04
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-005
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	17567.945	1855.728	172.690	82.460		pCi/L	ARS-054/EPA 906.0	12/24/08 3:28	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-06
Sample Collection Date: 11/24/08 09:04
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-006
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	17362.915	1835.022	173.540	82.866		pCi/L	ARS-054/EPA 906.0	12/24/08 5:07	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-07
Sample Collection Date: 11/24/08 10:10
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-007
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	429.023	128.372	173.895	83.035		pCi/L	ARS-054/EPA 906.0	12/24/08 6:47	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-08
Sample Collection Date: 11/24/08 10:10
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-008
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	223.696	113.324	174.268	83.213		pCi/L	ARS-054/EPA 906.0	12/24/08 8:27	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-09
Sample Collection Date: 11/24/08 11:56
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-009
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	3168.215	387.530	173.442	82.819		pCi/L	ARS-054/EPA 906.0	12/24/08 10:07	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-10
Sample Collection Date: 11/24/08 11:56
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-010
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	2718.659	342.784	173.731	82.957		pCi/L	ARS-054/EPA 906.0	12/24/08 11:47	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-11
Sample Collection Date: 11/24/08 10:23
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-011
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	282.647	117.375	174.007	83.089		pCi/L	ARS-054/EPA 906.0	12/24/08 13:26	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-12
Sample Collection Date: 11/24/08 10:23
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-012
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	392.981	125.592	173.929	83.052		pCi/L	ARS-054/EPA 906.0	12/24/08 15:06	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-13
Sample Collection Date: 11/24/08 10:49
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-013
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	1048.011	177.200	160.349	76.267		pCi/L	ARS-054/EPA 906.0	1/3/09 0:27	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-14
Sample Collection Date: 11/24/08 10:49
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-014
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	788.851	153.355	160.267	76.228		pCi/L	ARS-054/EPA 906.0	1/3/09 2:07	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-15
Sample Collection Date: 11/24/08 10:33
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-015
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	883.687	161.648	159.639	75.929		pCi/L	ARS-054/EPA 906.0	1/3/09 3:47	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-16
Sample Collection Date: 11/24/08 10:33
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-016
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	834.257	157.058	159.476	75.852		pCi/L	ARS-054/EPA 906.0	1/3/09 5:26	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-17
Sample Collection Date: 11/24/08 09:56
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-017
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	292.811	111.143	159.952	76.078		pCi/L	ARS-054/EPA 906.0	1/3/09 7:06	BS	N/A

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-18
Sample Collection Date: 11/24/08 09:56
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-018
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	319.383	113.331	160.165	76.180		pCi/L	ARS-054/EPA 906.0	1/3/09 8:46	BS	N/A

NOTES: Dresden Nuclear Power Station 05000237/2008005 Control #: D-08-1 Docket #: 050-00237


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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-19
Sample Collection Date: 11/24/08 12:58
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-019
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	226.400	106.250	160.224	76.208		pCi/L	ARS-054/EPA 906.0	1/3/09 10:26	BS	N/A

NOTES: Dresden Nuclear Power Station 05000237/2008005 Control #: D-08-1 Docket #: 050-00237


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NELAP Certificate # E87558



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-20
Sample Collection Date: 11/24/08 12:58
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-020
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	102.764	97.264	159.926	76.066	U	pCi/L	ARS-054/EPA 906.0	1/3/09 12:05	BS	N/A

NOTES: Dresden Nuclear Power Station 05000237/2008005 Control #: D-08-1 Docket #: 050-00237


Project Manager Review

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-21
Sample Collection Date: 11/24/08 12:37
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-021
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	361.901	116.636	160.052	76.126		pCi/L	ARS-054/EPA 906.0	1/3/09 13:45	BS	N/A

NOTES: Dresden Nuclear Power Station 05000237/2008005 Control #: D-08-1 Docket #: 050-00237


Project Manager Review

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-22
Sample Collection Date: 11/24/08 12:37
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-022
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	362.185	116.916	160.522	76.349		pCi/L	ARS-054/EPA 906.0	1/3/09 15:25	BS	N/A

NOTES: Dresden Nuclear Power Station 05000237/2008005 Control #: D-08-1 Docket #: 050-00237


Project Manager Review

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-23
Sample Collection Date: 11/24/08 11:24
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-023
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	93.529	96.972	160.513	76.345	U	pCi/L	ARS-054/EPA 906.0	1/3/09 17:05	BS	N/A

NOTES: Dresden Nuclear Power Station 05000237/2008005 Control #: D-08-1 Docket #: 050-00237


Project Manager Review

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ARS Sample Delivery Group: ARS1-08-02457
Client Sample ID: D-08-1-24
Sample Collection Date: 11/24/08 11:24
Sample Matrix: Aqueous

Request or PO Number: N/A
ARS Sample ID: ARS1-08-02457-024
Date Received: 11/26/2008
Report Date: 01/05/09 13:11

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
H-3	141.638	100.308	160.564	76.369	U	pCi/L	ARS-054/EPA 906.0	1/3/09 18:45	BS	N/A

NOTES: Dresden Nuclear Power Station 05000237/2008005 Control #: D-08-1 Docket #: 050-00237


Project Manager Review

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NELAP Certificate # E87558



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QC Results Report

Sample Delivery Group: ARS1-08-02457

Date Received: 11/26/2008

Laboratory Control Sample Evaluation

Analysis Batch	QC Type	Analyte	Analysis Results	CSU 1 (1 s)	MDC	Expected Value	Qual	Report Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Percent Recovery (%)	LCS Acceptance Range
ARS1-B08-03266	LCS	H3	1007.134	176.945	172.195	1248.649		pCi/L	ARS-054/EPA 906.0	12/23/08 14:09	BS	81	75%-125%

Blank Evaluation

Analysis Batch	QC Type	Analyte	Analysis Results	CSU 1 (1 s)	MDC	Expected Value	Qual	Report Units	Analysis Test Method	Analysis Date/Time	Analysis Technician
ARS1-B08-03266	MBL	H3	76.052	102.624	172.520	NA	U	pCi/L	ARS-054/EPA 906.0	12/23/08 17:28	BS

RER Duplicate Evaluation

Analysis Batch	QC Type	Analysis Description	Result 1	CSU 1 (1 s)	Result 2	CSU 2 (1s)	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	RER	RER Acceptance Range
ARS1-B08-03266	LCSD	H3	1007.134	176.945	1053.138	181.276		pCi/L	ARS-054/EPA 906.0	12/23/08 15:49	BS	0.13	< 1

DER Duplicate Evaluation

Analysis Batch	QC Type	Analysis Description	Result 1	CSU 1 (1 s)	Result 2	CSU 2 (1s)	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	DER	DER Acceptance Range
ARS1-B08-03266	LCSD	H3	1007.134	176.945	1053.138	181.276		pCi/L	ARS-054/EPA 906.0	12/23/08 15:49	BS	0.36	< 3


Project Manager Review

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NELAP Certificate # E87558



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1 (800) 401-4277 FAX (225) 381-2996

QC Results Report

Sample Delivery Group: ARS1-08-02457

Date Received: 11/26/2008

Laboratory Control Sample Evaluation

Analysis Batch	QC Type	Analyte	Analysis Results	CSU 1 (1 s)	MDC	Expected Value	Qual	Report Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Percent Recovery (%)	LCS Acceptance Range
ARS1-B08-03267	LCS	H3	999.290	171.666	158.345	1248.649		pCi/L	ARS-054/EPA 906.0	1/2/09 17:48	BS	80	75%-125%

Blank Evaluation

Analysis Batch	QC Type	Analyte	Analysis Results	CSU 1 (1 s)	MDC	Expected Value	Qual	Report Units	Analysis Test Method	Analysis Date/Time	Analysis Technician
ARS1-B08-03267	MBL	H3	88.366	95.865	159.168	NA	U	pCi/L	ARS-054/EPA 906.0	1/2/09 21:07	BS

RER Duplicate Evaluation

Analysis Batch	QC Type	Analysis Description	Result 1	CSU 1 (1 s)	Result 2	CSU 2 (1s)	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	RER	RER Acceptance Range
ARS1-B08-03267	LCS	H3	999.290	171.666	1010.138	173.164		pCi/L	ARS-054/EPA 906.0	1/2/09 19:28	BS	0.03	< 1

DER Duplicate Evaluation

Analysis Batch	QC Type	Analysis Description	Result 1	CSU 1 (1 s)	Result 2	CSU 2 (1s)	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	DER	DER Acceptance Range
ARS1-B08-03267	LCS	H3	999.290	171.666	1010.138	173.164		pCi/L	ARS-054/EPA 906.0	1/2/09 19:28	BS	0.09	< 3


Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



Notes:

Comments:

- 1.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 2.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 3.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 4.0) Derived Air Concentrations and Effluent Release Concentrations are obtained from 10 CFR 20 Appendix B.
- 5.0) **Total activity** is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228. (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234. (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected.

Method References:

- 1.0) **EPA 600/4-80-032**; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for Examination of Water and Waste Water, 18th, 1992.
- 3.0) **EPA SW-846**; Test Methods for Evaluating Solid Waste, Third Edition, (9/86). (Updated through 1995).
- 4.0) **EPA 600/4/79-020**; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) **HASL 300**
- 6.0) **ARS-040**; An LCSD is not reported with this process. The criteria for the LCS/LCSD analysis for reproducibility have not been established for Low Level Tritium analysis. A prepared standard for Low Level Tritium has not been developed. As a result, the standard we use is based on the dilution of a verified conventional tritium standard. The volume required for Low Level Tritium analysis, in addition to the lack of an available Low Level Tritium standard, introduce variability into the LCS/LCSD analysis that does not represent the actual sample analysis. The preferred measure for reproducibility is to run a duplicate analysis of a sample.

Definitions:

- | | | |
|-------|-----------------|---|
| 1.0) | ND | Not detected above the detection limit (non-detect). |
| 2.0) | MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| 3.0) | MBL | Method Blank |
| 4.0) | DO | Duplicate Original |
| 5.0) | DUP | Method Duplicate |
| 6.0) | MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| 7.0) | S | Spike |
| 8.0) | RS | Reference Spike |
| 9.0) | *SC | Subcontracted out to another qualified laboratory |
| 10.0) | NR | Not Referenced |
| 11.0) | N/A | Not Applicable |
| 12.0) | * | Reported as a calculated value |
| 13.0) | ** | False Positive due to interference from <u>Bi-214</u> |
| 14.0) | U | Activity is below the MDC |
| 15.0) | LCS/LCSD | Laboratory Control Standard/Laboratory Control Standard Duplicate |

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**REQUEST FOR ANALYSIS AND
CHAIN OF CUSTODY**

LABORATORY -- ORISE OTHER ARS
(Specify)

LABORATORY USE ONLY

CONTROL NUMBER

D-08-1

SAMPLE LOCATION (LICENSEE)

Dresden Nuclear Power Station

INSPECTION NO.

05000237/2008005

LICENSE NO.

DOCKET NO.

050-00237

SAMPLE SUBMITTED

DATE SAMPLES SUBMITTED

11/25/2008

PRIORITY

ROUTINE
 URGENT

SAMPLE COLLECTION INTERVAL

MONTH	DAY	YEAR	TIME
11	24	2008	9:04am
11	24	2008	12:58pm

START

STOP

TELEPHONE NUMBER

630-829-9826

INSPECTOR RESPONSIBLE

Gene Bonano

ANALYSIS TO BE PERFORMED

LIST DESIRED
LLD (Optional)

OTHER TYPE OF ANALYSIS (Specify)

LIST DESIRED
LLD (Optional)

GROSS ALPHA (GA)

GROSS BETA (GB)

GAMMA SPEC (GS)

TRITIUM (H3)

200 pCi/L

CARBON-14 (C14)

IODINE-125 (I125)

RELINQUISHED BY

RECEIVED BY

DATE

TIME

REASON FOR CHANGE OF CUSTODY

Gene Bonano

FEDEX

11/25/2008

5:00pm

Samples sent to lab.

Maria John

11-26-08

10:20

FEE RECOVERABLE



YES



NO

TAC NUMBER

12008005

(If Assigned)

REMARKS

Do not process/analyze samples until directed/authorized by Elaine Keegan (Tel.: 301-415-8517), NRR, HQ NRC...

Hold samples until notified by NRC...

NOTE: SAMPLES WILL BE DISCARDED AFTER ANALYSIS UNLESS REASONS ARE NOTED IN REMARKS ABOVE.

NRC FORM 303A
(1-2007)

U.S. NUCLEAR REGULATORY COMMISSION

LABORATORY USE ONLY

SAMPLE RECORD -- Continued

CONTROL NUMBER

LABORATORY - ORISE OTHER ARS
(Specify)

D-08-1

SAMPLE NUMBER	SAMPLE NAME AND DESCRIPTION	COLLECTION DATE/TIME	REMARKS, PRESERVATIVE ANALYSIS REQUESTED, ETC.
D-08-1-01	MW-DN-124-I	11/24/2008 9:25AM	
D-08-1-02	MW-DN-124-I	11/24/2008 9:25AM	
D-08-1-03	MW-DN-124-S	11/24/2008 9:41AM	
D-08-1-04	MW-DN-124-S	11/24/2008 9:41AM	
D-08-1-05	DSP-124	11/24/2008 9:04AM	
D-08-1-06	DSP-124	11/24/2008 9:04AM	
D-08-1-07	W-3	11/24/2008 10:10AM	
D-08-1-08	W-3	11/24/2008 10:10AM	
D-08-1-09	DSP-122	11/24/2008 11:56AM	
D-08-1-10	DSP-122	11/24/2008 11:56AM	
D-08-1-11	T-6	11/24/2008 10:23AM	
D-08-1-12	T-6	11/24/2008 10:23AM	
D-08-1-13	R-1	11/24/2008 10:49AM	
D-08-1-14	R-1	11/24/2008 10:49AM	
D-08-1-15	T-5	11/24/2008 10:33AM	
D-08-1-16	T-5	11/24/2008 10:33AM	
D-08-1-17	W2R	11/24/2008 9:56AM	
D-08-1-18	W2R	11/24/2008 9:56AM	
D-08-1-19	DSP-131	11/24/2008 12:58PM	
D-08-1-20	DSP-131	11/24/2008 12:58PM	
D-08-1-21	DSP-132	11/24/2008 12:37PM	
D-08-1-22	DSP-132	11/24/2008 12:37PM	
D-08-1-23	E7	11/24/2008 11:24AM	
D-08-1-24	E7	11/24/2008 11:24AM	