

From: "Lavera, Ronald" <RLavera@entergy.com>
To: <jjk@nrc.gov>
Date: 06/07/2006 2:45:48 PM
Subject: Sample Analysis Reports - Part 2

<<Entergy L28264 r051706.pdf>> <<Entergy L28500.pdf>> <<Entergy
L28501.pdf>> <<Entergy L28593.pdf>>

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Indian Point 3
Entergy Nuclear Northeast
Entergy Nuclear Operations, Inc.
Indian Point Energy Center
295 Broadway, Suite 3
P.O. Box 308
Buchanan, NY 10511-0308

D-4

Mail Envelope Properties (44871E0E.F98 : 22 : 36760)

Subject: Sample Analysis Reports - Part 2
Creation Date 06/07/2006 2:39:25 PM
From: "Lavera, Ronald" <RLavera@entergy.com>

Created By: RLavera@entergy.com

Recipients

nrc.gov
kp1_po.KP_DO
JJK (James Kottan)

Post Office
kp1_po.KP_DO

Route
nrc.gov

Files	Size	Date & Time
MESSAGE	442	06/07/2006 2:39:25 PM
TEXT.htm	1612	
Entergy L28264 r051706.pdf	1676546	
Entergy L28500.pdf	953085	
Entergy L28501.pdf	1490774	
Entergy L28593.pdf	791583	
Mime.822	6727209	

Options

Expiration Date: None
Priority: Standard
ReplyRequested: No
Return Notification: None

Concealed Subject: No
Security: Standard

Junk Mail Handling Evaluation Results

Message is eligible for Junk Mail handling
This message was not classified as Junk Mail

Junk Mail settings when this message was delivered

Junk Mail handling disabled by User
Junk List is not enabled
Junk Mail using personal address books is not enabled
Block List is not enabled



**TELEDYNE
BROWN ENGINEERING, INC.**

A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Floyd Hood, Chem
Entergy Nuclear Northeast
Indian Point Energy Center
295 Broadway - Suite 3, P.O. Box 308
Buchanan NY 10511-0308

REVISED
5-17-06

Report of Analysis/Certificate of Conformance

05/17/2006

LIMS #: L28264

Project ID#: EN002-3P50IP3-04

Received: 04/10/2006

Delivery Date: 04/24/2006

P.O. #: 4500539361

Release #:

SDG #:

This is to certify that Teledyne Brown Engineering - Environmental Services located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.

Keith Jeter
Operations Manager

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
IP3-06-37	L28264-1	U1 N CURTAIN DRAIN
IP3-06-38	L28264-2	SPHERE FOUND
IP3-06-39	L28264-3	U1 CONTAIN
IP3-06-40	L28264-4	U1 WEST POOL
IP3-06-41	L28264-5	U2 SPENT FUEL POOL



Case Narrative

05/17/2006 13:22

L28264

EN002-3P50IP3-04

Entergy Nuclear Operations, Inc

Samples L28262-1 (U1 North Curtain drain) and 3 (U1 Containment Spray Sunmp) were rerun to confirm total Strontium and Sr-90 results.

L28264-1 None

Analysis	Run#	Analysis Comments
SR-90		Client requested confirmation
SR-90 (FAST)		Client requested confirmation

L28264-3 None

Analysis	Run#	Analysis Comments
SR-90		Client requested confirmation
SR-90 (FAST)		Client requested confirmation

L28264-4 None

Analysis	Run#	Analysis Comments
GELI		Confirm results with reduced dead time.

L28264-5 None

Analysis	Run#	Analysis Comments
GELI		Confirm results with less dead time

Report of Analysis

05/17/06 13:02

L28264

Entergy Nuclear Northeast

EN002-3P50IP3-04



TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company

REVISED
5-17-06

Floyd Hood, Chem

Sample ID: IP3-06-37					Collect Start: 03/22/2006 13:45					Matrix: Water					(WO)				
Station: U1 N CURTAIN DRAIN					Collect Stop:					Volume:									
Description: U1 North Curtain Drain					Receive Date: 04/10/2006					% Moisture:									
LIMS Number: L28264-1																			
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values						
FE-55	2006	7.85E+02	1.11E+02	2.07E+02	pCi/L		200	ml	03/22/06 13:45	04/20/06	6000		U*		No				
H-3	2010	1.18E+04	1.20E+03	1.22E+03	pCi/L		2	ml		04/20/06	40	M	+						
NI-63	2013	1.05E+03	5.78E+01	3.93E+01	pCi/L		100	ml		04/20/06	12.04	M	+						
SR-90	2019	2.32E+02	6.00E+00	1.15E+00	pCi/L		450	ml	03/22/06 13:45	04/25/06	100	M	+						
SR-90	2019	2.06E+02	1.98E+01	4.37E+00	pCi/L	R1	450	ml	03/22/06 13:45	05/11/06	15	M	+						
TOTAL SR	2018	2.12E+02	1.29E+01	3.24E+00	pCi/L		450	ml	03/22/06 13:45	04/19/06	15	M	+						
TOTAL SR	2018	2.20E+02	6.34E+00	1.91E+00	pCi/L	R1	450	ml	03/22/06 13:45	05/08/06	100	M	+						
BE-7	2007	9.28E+02	1.21E+03	2.01E+03	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
K-40	2007	-5.85E+01	1.45E+02	2.86E+02	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
CR-51	2007	8.63E+01	1.21E+03	1.98E+03	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
MN-54	2007	3.70E+00	1.32E+01	2.23E+01	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
CO-57	2007	1.34E+00	5.63E+01	9.35E+01	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
CO-58	2007	5.82E+00	1.63E+01	2.77E+01	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
FE-59	2007	-2.17E+01	3.68E+01	5.54E+01	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
CO-60	2007	1.14E+01	1.47E+01	2.67E+01	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
ZN-65	2007	-6.54E+00	3.13E+01	4.98E+01	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
NB-94	2007	-9.28E+00	1.30E+01	2.00E+01	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
NB-95	2007	2.09E+00	1.69E+01	2.80E+01	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
ZR-95	2007	-5.42E+00	2.88E+01	4.63E+01	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
MO-99	2007	6.32E+03	6.39E+04	1.06E+05	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
RU-103	2007	-3.35E+01	1.32E+02	2.17E+02	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
RU-106	2007	-2.05E+02	5.81E+02	9.58E+02	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
AG-110M	2007	4.90E+04	3.69E+02	8.44E+02	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U*		No				
SB-124	2007	-4.12E+01	7.74E+01	1.24E+02	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
SB-125	2007	1.73E+01	2.94E+02	4.88E+02	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
I-131	2007	-3.67E+02	8.01E+02	1.30E+03	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
CS-134	2007	-3.78E+01	5.91E+01	9.45E+01	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U		No				
CS-137	2007	5.44E+04	3.97E+02	8.90E+01	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	+		Yes				

Flag Values

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 High = Activity concentration exceeds customer reporting value
 Spec = MDC exceeds customer technical specification
 L = Low recovery
 H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
 Yes = Peak identified in gamma spectrum
 **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

05/17/06 13:02

L28264

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE
BROWN ENGINEERING, INC.**
A Teledyne Technologies Company

REVISED
5-17-06

Floyd Hood, Chem

Sample ID: IP3-06-37					Collect Start: 03/22/2006 13:45					Matrix: Water					(WO)	
Station: U1 N CURTAIN DRAIN					Collect Stop:					Volume:						
Description: U1 North Curtain Drain					Receive Date: 04/10/2006					% Moisture:						
LIMS Number: L28264-1																
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
BA-140	2007	-1.75E+01	1.03E+03	1.68E+03	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U	No		
LA-140	2007	2.82E+01	5.53E+01	9.95E+01	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U	No		
CE-141	2007	2.30E+01	1.59E+02	2.62E+02	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U	No		
CE-144	2007	-1.86E+02	4.37E+02	7.20E+02	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U	No		
EU-154	2007	-2.74E+01	1.13E+02	1.87E+02	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U	No		
RA-226	2007	2.40E+03	1.58E+03	2.62E+03	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U	No		
TH-228	2007	6.92E+01	1.26E+02	2.11E+02	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U	Spec	No	
TH-232	2007	2.11E+01	4.69E+01	8.42E+01	pCi/L		1030.55	ml	03/22/06 13:45	04/17/06	4346	Sec	U	Spec	No	

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MDC - Minimum Detectable Concentration

Report of Analysis

05/17/06 13:02

L28264

Entergy Nuclear Northeast

EN002-3P50IP3-04

REVISED
5-17-06

Floyd Hood, Chem

Sample ID: IP3-06-38					Collect Start: 03/22/2006 12:00					Matrix: Water					(WO)				
Station: SPHERE FOUND					Collect Stop:					Volume:									
Description: Sphere Foundation Drain Sump					Receive Date: 04/10/2006					% Moisture:									
LIMS Number: L28264-2																			
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values						
FE-55	2006	1.66E+02	6.84E+01	1.05E+02	pCi/L		200	ml	03/22/06 12:00	04/20/06	6000		U*		No				
H-3	2010	7.78E+02	2.22E+02	2.95E+02	pCi/L		10	ml		04/21/06	40	M	+						
NI-63	2013	7.66E+00	8.65E+00	1.40E+01	pCi/L		100	ml		04/21/06	100	M	U						
SR-90	2019	1.59E+01	6.52E-01	4.51E-01	pCi/L		450	ml	03/22/06 12:00	04/26/06	800	M	+						
TOTAL SR	2018	1.37E+01	8.30E-01	6.12E-01	pCi/L		450	ml	03/22/06 12:00	04/19/06	300	M	+						
BE-7	2007	1.93E+01	7.62E+01	1.27E+02	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
K-40	2007	3.34E+02	9.87E+01	1.99E+02	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U*		No				
CR-51	2007	-6.77E+01	9.95E+01	1.57E+02	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
MN-54	2007	-5.00E+00	7.49E+00	1.16E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
CO-57	2007	6.83E-01	5.53E+00	9.11E+00	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
CO-58	2007	-8.43E+00	8.81E+00	1.33E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
FE-59	2007	6.48E+00	1.79E+01	3.03E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
CO-60	2007	-2.10E+00	6.96E+00	1.11E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
ZN-65	2007	5.95E+00	1.60E+01	2.71E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
NB-94	2007	-3.59E+00	7.17E+00	1.15E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
NB-95	2007	-1.60E+00	8.86E+00	1.43E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
ZR-95	2007	2.33E+00	1.58E+01	2.61E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
MO-99	2007	-2.44E+03	3.75E+04	6.13E+04	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
RU-103	2007	4.88E-01	1.05E+01	1.70E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
RU-106	2007	-2.36E+01	6.54E+01	1.06E+02	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
AG-110M	2007	1.46E+01	8.52E+00	1.37E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U*		No				
SB-124	2007	-1.02E+01	1.11E+01	1.44E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
SB-125	2007	1.13E+01	1.84E+01	3.14E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
I-131	2007	3.61E+01	5.87E+01	1.01E+02	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
CS-134	2007	7.91E+00	9.01E+00	1.35E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
CS-137	2007	1.06E+01	1.23E+01	1.10E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		Yes				
BA-140	2007	2.34E+01	9.40E+01	1.56E+02	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				
LA-140	2007	-6.96E+00	3.16E+01	5.00E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U		No				

Flag Values

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Bolded text indicates reportable value.

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Yes = Peak identified in gamma spectrum

**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

05/17/06 13:02

REVISED
5-17-06

L28264

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-38						Collect Start: 03/22/2006 12:00				Matrix: Water				(WO)	
Station: SPHERE FOUND						Collect Stop:				Volume:					
Description: Sphere Foundation Drain Sump						Receive Date: 04/10/2006				% Moisture:					
LIMS Number: L28264-2															
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
CE-141	2007	-1.10E+01	1.67E+01	2.66E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U	No	
CE-144	2007	1.20E+00	4.55E+01	7.45E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U	No	
EU-154	2007	-6.24E-01	1.10E+01	1.80E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U	No	
RA-226	2007	1.09E+02	2.01E+02	2.24E+02	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U	Yes	
TH-228	2007	1.12E+01	1.41E+01	1.71E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U	Spec	Yes
TH-232	2007	1.57E+00	3.26E+01	4.38E+01	pCi/L		1018.78	ml	03/22/06 12:00	04/17/06	12624	Sec	U	Spec	No

Flag Values

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MDC - Minimum Detectable Concentration

Report of Analysis

05/17/06 13:02

REVISED
5-17-06

L28264

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-39		Collect Start: 03/22/2006 14:00				Matrix: Water				(WO)					
Station: U1 CONTAIN		Collect Stop:				Volume:									
Description: U1 Containment Spray Sump		Receive Date: 04/10/2006				% Moisture:									
LIMS Number: L28264-3															
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
FE-55	2006	6.82E+02	1.18E+02	2.25E+02	pCi/L		200	ml	03/22/06 14:00	04/20/06	3986		U*		No
H-3	2010	2.34E+03	2.97E+02	3.07E+02	pCi/L		10	ml		04/21/06	40	M	+		
NI-63	2013	2.22E+01	8.90E+00	1.39E+01	pCi/L		100	ml		04/21/06	100	M	+		
SR-90	2019	2.96E+02	8.65E+00	2.14E+00	pCi/L		450	ml	03/22/06 14:00	04/25/06	100	M	+		
SR-90	2019	2.94E+02	3.20E+01	8.84E+00	pCi/L	R1	450	ml	03/22/06 14:00	05/11/06	15	M	+		
TOTAL SR	2018	3.14E+02	2.06E+01	4.77E+00	pCi/L		450	ml	03/22/06 14:00	04/19/06	15	M	+		
TOTAL SR	2018	3.92E+02	1.05E+01	2.47E+00	pCi/L	R1	450	ml	03/22/06 14:00	05/08/06	100	M	+		
BE-7	2007	2.57E+02	2.58E+02	4.36E+02	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
K-40	2007	4.12E+01	1.59E+02	3.20E+02	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
CR-51	2007	1.14E+02	2.70E+02	4.46E+02	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
MN-54	2007	3.09E+00	1.13E+01	1.87E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
CO-57	2007	7.75E+00	1.32E+01	2.23E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
CO-58	2007	8.13E+00	1.33E+01	2.33E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
FE-59	2007	6.68E+00	2.93E+01	4.96E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
CO-60	2007	3.12E-01	1.10E+01	1.82E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
ZN-65	2007	1.71E+01	2.59E+01	4.56E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
NB-94	2007	-4.52E+00	1.02E+01	1.59E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
NB-95	2007	1.14E+01	1.39E+01	2.48E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
ZR-95	2007	-4.15E+00	2.19E+01	3.57E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
MO-99	2007	3.29E+04	5.18E+04	9.11E+04	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
RU-103	2007	7.50E+00	2.93E+01	4.81E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
RU-106	2007	4.00E+01	1.41E+02	2.37E+02	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
AG-110M	2007	2.55E+03	7.37E+01	1.68E+02	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U*		No
SB-124	2007	-5.24E-01	2.47E+01	3.44E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
SB-125	2007	-2.02E+01	6.03E+01	9.81E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
I-131	2007	-1.82E+02	1.61E+02	2.57E+02	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
CS-134	2007	1.24E+01	1.95E+01	2.85E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U		No
CS-137	2007	2.79E+03	7.96E+01	2.24E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	+		Yes

Flag Values

U = Compound/Analyte not detected or less than 3 sigma
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
 U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
 High = Activity concentration exceeds customer reporting value
 Spec = MDC exceeds customer technical specification
 L = Low recovery
 H = High recovery

No = Peak not identified in gamma spectrum
 Yes = Peak identified in gamma spectrum
 **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.

Report of Analysis

05/17/06 13:02

L28264

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE
BROWN ENGINEERING, INC.**
A Teledyne Technologies Company

REVISED
5-17-06

Floyd Hood, Chem

Sample ID: IP3-06-39 Station: U1 CONTAIN Description: U1 Containment Spray Sump LIMS Number: L28264-3						Collect Start: 03/22/2006 14:00 Collect Stop: Receive Date: 04/10/2006			Matrix: Water (WO) Volume: % Moisture:				
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
BA-140	2007	1.65E+01	2.35E+02	3.92E+02	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U No
LA-140	2007	3.71E+01	5.11E+01	9.30E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U No
CE-141	2007	-2.28E+01	3.74E+01	6.05E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U No
CE-144	2007	-5.93E+01	1.03E+02	1.68E+02	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U No
EU-154	2007	2.35E+01	2.65E+01	4.53E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U No
RA-226	2007	3.10E+00	3.68E+02	5.91E+02	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U Yes
TH-228	2007	7.85E+00	2.98E+01	5.07E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U Spec No
TH-232	2007	2.00E+01	4.15E+01	7.44E+01	pCi/L		986.75	ml	03/22/06 14:00	04/17/06	4943	Sec	U Spec No
AM-241 (AS)	2001	2.43E-02	6.04E-02	1.02E-01	pCi/L		200	ml		04/20/06	60000	sec	U
CM-242 (AS)	2001	3.66E-02	4.57E-02	4.29E-02	pCi/L		.2	l		04/20/06	60000	sec	U
CM-243/244 (AS)	2001	4.41E-02	4.42E-02	1.63E-02	pCi/L		.2	l		04/20/06	60000	sec	U
NP-237 (AS)	2001	-8.25E-03	6.46E-02	1.39E-01	pCi/L		.2	l		04/20/06	60003	sec	U
PU-238 (AS)	2001	-8.29E-03	7.20E-02	1.53E-01	pCi/L		200	ml		04/20/06	60003	sec	U
PU-239/240 (AS)	2001	-5.49E-02	3.72E-02	1.45E-01	pCi/L		200	ml		04/20/06	60003	sec	U
PU-241	2001	4.38E+00	6.39E+00	1.03E+01	pCi/L		200	ml		04/22/06	100	M	U
PU-242 (AS)	2001	3.44E-02	6.45E-02	8.35E-02	pCi/L		200	ml		04/20/06	60003	sec	U
U-233/234 (AS)	2001	5.53E-01	1.75E-01	7.67E-02	pCi/L		.2	l		04/20/06	60000	sec	+
U-235 (AS)	2001	1.01E-02	3.27E-02	4.24E-02	pCi/L		.2	l		04/20/06	60000	sec	U
U-238 (AS)	2001	4.20E-01	1.49E-01	3.43E-02	pCi/L		.2	l		04/20/06	60000	sec	+

Flag Values

U = Compound/Analyte not detected or less than 3 sigma
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
 U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
 High = Activity concentration exceeds customer reporting value
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 L = Low recovery
 H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
 Yes = Peak identified in gamma spectrum
 **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

05/17/06 13:02

L28264

Entergy Nuclear Northeast

EN002-3P501P3-04

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Floyd Hood, Chem

REVISED
5-17-06

Sample ID: IP3-06-40		Collect Start: 03/22/2006 13:20				Matrix: Water				(WO)				
Station: U1 WEST POOL		Collect Stop:				Volume:								
Description: U1 West Pool		Receive Date: 04/10/2006				% Moisture:								
LIMS Number: L28264-4														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
FE-55	2006	3.52E+02	8.56E+01	1.36E+02	pCi/L		200	ml	03/22/06 13:20	04/20/06	6000		U*	No
H-3	2010	2.57E+05	8.59E+04	1.21E+05	pCi/L		.02	ml		04/20/06	40	M	+	
NI-63	2013	2.39E+05	1.13E+04	5.51E+02	pCi/L		100	ml		04/21/06	.07	M	+	
SR-90	2019	2.10E+05	2.63E+02	2.46E+00	pCi/L		450	ml	03/22/06 13:20	04/25/06	100	M	+	
TOTAL SR	2018	2.19E+05	6.18E+02	7.27E+00	pCi/L		450	ml	03/22/06 13:20	04/19/06	15	M	+	
BE-7	2007	8.96E+04	7.98E+04	1.30E+05	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
K-40	2007	2.77E+03	2.68E+03	3.29E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	Yes
CR-51	2007	3.48E+04	8.25E+04	1.37E+05	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
MN-54	2007	-9.65E+02	8.75E+02	1.41E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
CO-57	2007	4.59E+02	2.85E+03	4.74E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
CO-58	2007	5.66E+02	1.14E+03	1.91E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
FE-59	2007	-1.14E+03	1.95E+03	3.10E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
CO-60	2007	1.09E+04	6.20E+02	3.56E+02	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	+	Yes
ZN-65	2007	7.65E+02	1.40E+03	2.33E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
NB-94	2007	4.04E+02	9.06E+02	1.49E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
NB-95	2007	-1.84E+02	1.21E+03	1.96E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
ZR-95	2007	-1.98E+03	2.22E+03	3.53E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
RU-103	2007	-7.46E+03	8.80E+03	1.46E+04	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
RU-106	2007	-1.96E+04	3.29E+04	5.40E+04	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
AG-110M	2007	1.16E+07	2.11E+04	4.84E+04	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U*	No
SB-124	2007	-1.30E+02	4.66E+03	7.67E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
SB-125	2007	-6.41E+03	1.71E+04	2.79E+04	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
I-131	2007	1.65E+04	9.64E+04	1.58E+05	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
CS-134	2007	-1.56E+03	3.23E+03	5.30E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
CS-137	2007	1.34E+07	2.29E+04	4.80E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	+	Yes
BA-140	2007	-7.69E+04	9.51E+04	1.57E+05	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
LA-140	2007	-9.98E+00	1.52E+03	2.53E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No
CE-141	2007	-8.36E+02	9.52E+03	1.57E+04	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No

Flag Values

U = Compound/Analyte not detected or less than 3 sigma
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 H = High recovery

No = Peak not identified in gamma spectrum
 Yes = Peak identified in gamma spectrum
 **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.

Report of Analysis

05/17/06 13:02

L28264

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE
BROWN ENGINEERING, INC.**
A Teledyne Technologies Company

REVISED
5-17-06

Floyd Hood, Chem

Sample ID: IP3-06-40					Collect Start: 03/22/2006 13:20					Matrix: Water					(WO)	
Station: U1 WEST POOL					Collect Stop:					Volume:						
Description: U1 West Pool					Receive Date: 04/10/2006					% Moisture:						
LIMS Number: L28264-4																
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
CE-144	2007	1.81E+03	2.20E+04	3.66E+04	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No		
EU-154	2007	3.20E+03	5.54E+03	9.24E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No		
RA-226	2007	6.71E+05	8.09E+04	1.35E+05	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U*	No		
TH-228	2007	1.89E+03	6.76E+03	1.10E+04	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No		
TH-232	2007	8.60E+02	2.77E+03	4.62E+03	pCi/L	R1	.05	L	03/22/06 13:20	04/26/06	7402	Sec	U	No		
AM-241 (AS)	2001	8.45E+00	8.54E-01	7.17E-02	pCi/L		200	ml		04/20/06	60000	sec	+			
CM-242 (AS)	2001	6.56E-02	5.76E-02	3.18E-02	pCi/L		.2	l		04/20/06	60000	sec	U			
CM-243/244 (AS)	2001	6.59E-01	1.80E-01	1.71E-02	pCi/L		.2	l		04/20/06	60000	sec	+			
NP-237 (AS)	2001	1.82E-02	7.65E-02	1.33E-01	pCi/L		.2	l		04/20/06	60004	sec	U			
PU-238 (AS)	2001	8.25E+00	1.30E+00	2.00E-01	pCi/L		200	ml		04/20/06	60004	sec	+			
PU-239/240 (AS)	2001	4.99E+00	8.70E-01	8.64E-02	pCi/L		200	ml		04/20/06	60004	sec	+			
PU-241	2001	2.58E+01	7.12E+00	1.03E+01	pCi/L		200	ml		04/22/06	100	M	+			
PU-242 (AS)	2001	1.19E-02	3.85E-02	4.99E-02	pCi/L		200	ml		04/20/06	60004	sec	U			
U-233/234 (AS)	2001	6.45E-02	6.58E-02	6.19E-02	pCi/L		.2	l		04/20/06	60000	sec	U			
U-235 (AS)	2001	.00E+00	.00E+00	2.37E-02	pCi/L		.2	l		04/20/06	60000	sec	U			
U-238 (AS)	2001	3.43E-03	4.20E-02	7.99E-02	pCi/L		.2	l		04/20/06	60000	sec	U			

Flag Values

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- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
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Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
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- **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

05/17/06 13:02

L28264

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE
BROWN ENGINEERING, INC.**
A Teledyne Technologies Company

REVISED
5-17-06

Floyd Hood, Chem

Sample ID: IP3-06-41		Collect Start: 03/22/2006 12:10				Matrix: Water		(WO)						
Station: U2 SPENT FUEL POOL		Collect Stop:				Volume:								
Description: U2 Spent Fuel Pool		Receive Date: 04/10/2006				% Moisture:								
LIMS Number: L28264-5														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
FE-55	2006	1.11E+02	1.04E+02	1.51E+02	pCi/L		200	ml	03/22/06 12:10	04/20/06	6000		U	No
H-3	2010	2.39E+07	4.33E+05	1.22E+05	pCi/L		.02	ml		04/20/06	40	M	+	
NI-63	2013	8.17E+03	3.84E+02	9.90E+01	pCi/L		100	ml		04/21/06	2.01	M	+	
SR-89	2019	-1.84E+01	7.17E+00	1.21E+01	pCi/L		450	ml	03/22/06 12:10	04/26/06	800	M	U	Spec
SR-90	2019	4.34E+02	1.19E+01	3.07E+00	pCi/L		450	ml	03/22/06 12:10	04/25/06	100	M	+	
TOTAL SR	2018	4.66E+02	2.88E+01	6.28E+00	pCi/L		450	ml	03/22/06 12:10	04/19/06	15	M	+	
BE-7	2007	1.81E+04	3.97E+03	5.89E+03	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U*	No
K-40	2007	-3.00E+02	7.58E+02	1.30E+03	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
CR-51	2007	-3.71E+02	4.31E+03	6.96E+03	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
MN-54	2007	1.05E+02	2.09E+02	3.49E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
CO-57	2007	3.01E+02	1.50E+02	2.37E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	+	Yes
CO-58	2007	2.29E+03	3.12E+02	4.37E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	+	Yes
FE-59	2007	3.05E+02	6.97E+02	1.16E+03	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
CO-60	2007	4.13E+04	4.09E+02	1.71E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	+	Yes
ZN-65	2007	-9.96E+01	4.78E+02	7.86E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
NB-94	2007	-1.96E+01	1.70E+02	2.80E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
NB-95	2007	5.49E+01	2.66E+02	4.36E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
ZR-95	2007	9.86E+01	4.73E+02	7.77E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
RU-103	2007	-1.25E+02	4.37E+02	7.23E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
RU-106	2007	-2.74E+03	2.20E+03	3.52E+03	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
AG-110M	2007	9.49E+04	7.60E+02	1.69E+03	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U*	No
SB-124	2007	7.07E+04	7.53E+02	1.66E+03	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U*	No
SB-125	2007	1.90E+03	5.63E+02	1.32E+03	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	+	Yes
I-131	2007	8.46E+02	4.67E+03	7.74E+03	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
CS-134	2007	4.91E+04	3.82E+02	3.48E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	+	Yes
CS-137	2007	9.98E+04	7.98E+02	3.68E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	+	Yes
BA-140	2007	-3.62E+03	5.46E+03	8.93E+03	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
LA-140	2007	3.73E+01	4.66E+02	7.75E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.

Report of Analysis

05/17/06 13:02

L28264

Entergy Nuclear Northeast

EN002-3P50IP3-04

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company

REVISED
5-17-06

Floyd Hood, Chem

Sample ID: IP3-06-41		Collect Start: 03/22/2006 12:10				Matrix: Water				(WO)				
Station: U2 SPENT FUEL POOL		Collect Stop:				Volume:								
Description: U2 Spent Fuel Pool		Receive Date: 04/10/2006				% Moisture:								
LIMS Number: L28264-5														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
CE-141	2007	-2.62E+01	4.78E+02	7.90E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
CE-144	2007	-7.67E+02	1.11E+03	1.84E+03	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
EU-154	2007	5.88E+02	2.93E+02	4.72E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U*	No
RA-226	2007	5.53E+03	4.17E+03	6.85E+03	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
TH-228	2007	1.89E+02	3.46E+02	5.75E+02	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
TH-232	2007	-5.46E+02	8.08E+02	1.32E+03	pCi/L	R1	.284	L	03/22/06 12:10	04/25/06	6000	Sec	U	No
AM-241 (AS)	2001	4.68E+00	5.95E-01	4.99E-02	pCi/L		200	ml		04/20/06	60000	sec	+	
CM-242 (AS)	2001	1.21E+01	1.17E+00	1.88E-02	pCi/L		.2	l		04/20/06	60000	sec	+	
CM-243/244 (AS)	2001	3.22E+01	2.64E+00	1.88E-02	pCi/L		.2	l		04/20/06	60000	sec	+	
NP-237 (AS)	2001	4.89E-02	9.19E-02	1.19E-01	pCi/L		.2	l		04/20/06	60004	sec	U	
PU-238 (AS)	2001	5.07E+00	1.01E+00	2.92E-01	pCi/L		200	ml		04/20/06	60004	sec	+	
PU-239/240 (AS)	2001	1.24E+00	3.89E-01	1.65E-01	pCi/L		200	ml		04/20/06	60004	sec	+	
PU-241	2001	2.64E+02	1.35E+01	1.13E+01	pCi/L		200	ml		04/22/06	100	M	+	
PU-242 (AS)	2001	.00E+00	.00E+00	3.35E-02	pCi/L		200	ml		04/20/06	60004	sec	U	
U-233/234 (AS)	2001	6.68E-02	6.00E-02	1.97E-02	pCi/L		.2	l		04/20/06	60000	sec	U	
U-235 (AS)	2001	-5.74E-03	1.15E-02	4.54E-02	pCi/L		.2	l		04/20/06	60000	sec	U	
U-238 (AS)	2001	8.17E-03	4.21E-02	7.34E-02	pCi/L		.2	l		04/20/06	60000	sec	U	

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- U* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

04/13/06 10:26

Teladyne Brown Engineering
Sample Receipt Verification/Variance Report

SR #: SR07783

Client: Entergy Nuclear Operations, Project #: EN002-3P50IP3-04

LIMS #: L28264

Initiated By: PMARSHALL

Init Date: 04/11/06 Receive Date: 04/11/06

Notification of Variance

Person Notified: *Floyd Hood*Contacted By: *R. Charles*Notify Date: *4/13/06*Notify Method: *Phone*Notify Comment: *which COC is correct*

Client Response

Person Responding: *Floyd Hood*Response Date: *4/13/06*Response Method: *phone*Response Comment: *Schedule based on electronic COC*

Criteria	Yes	No	NA	Comment
1 Shipping container custody seals present and intact.			NA	
2 Sample container custody seals present and intact.			NA	
3 Sample containers received in good condition		Y		
4 Chain of custody received with samples		Y		
5 All samples listed on chain of custody received		Y		
6 Sample container labels present and legible.		Y		
7 Information on container labels correspond with chain of custody		Y		
8 Sample(s) properly preserved and in appropriate container(s)			NA	
9 Other (Describe)			N	
Information on electronic COC did not match the information on the hardcopy. Electronic COC states 4 bottles but we received 6 bottles.				

Indian Point 3
Air Particulates and Air Iodine Samples

Entergy Nuclear Operations, Inc.
Sample Collection/Receipt Sheet

2

unit yr id# format (IPX-XX-XXXX) Teledyne Sample #	Sample ID	Sample Type	Start date	Start time	Stop date	Stop time	Volume or Area	Analysis	Comments	Sample Size Units	Plant Code
IP3-06-37	U1 North Curtain Drain	LR	22-Mar-06	13:45			1.000E+00	SR-90, NI-63, FE-55, H-3, GELI	Count to Environmental LLDs; RUSH	GAL	EN002-3P50IP3-04
IP3-06-38	Sphere Foundation Drain Sump	LR	22-Mar-06	12:00			1.000E+00	SR-90, NI-63, FE-55, H-3, GELI	Count to Environmental LLDs; RUSH	GAL	EN002-3P50IP3-04
IP3-06-39	U1 containment Spray Sump	LR	22-Mar-06	14:00			1.000E+00	SR-90, NI-63, FE-55, H-3, GELI, Np-237, Am-241, Pu-241, Pu-242, Pu-iso, Cm-iso, U-iso	Count to Environmental LLDs; RUSH	GAL	EN002-3P50IP3-04
IP3-06-40	U1 West Pool	LR	22-Mar-06	13:20			1.000E+00	SR-90, NI-63, FE-55, H-3, GELI, Np-237, Am-241, Pu-241, Pu-242, Pu-iso, Cm-iso, U-iso	Count to Environmental LLDs; RUSH	GAL	EN002-3P50IP3-04
IP3-06-41	U2 Spent Fuel Pool	LR	23-Mar-06	12:10			4.000E+03	SR-90, SR-89, NI-63, FE-55, H-3, GELI, Np-237, Am-241, Pu-241, Pu-242, Pu-iso, Cm-iso, U-iso	Count to Environmental LLDs; RUSH (4 LITER BOTTLES)	ML	EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04

Collected by: _____



**TELEDYNE
BROWN ENGINEERING, INC.**

A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

L28500 1 of 8

Floyd Hood, Chem
Entergy Nuclear Northeast
Indian Point Energy Center
295 Broadway - Suite 3, P.O. Box 308
Buchanan NY 10511-0308

Report of Analysis/Certificate of Conformance

05/26/2006

LIMS #: L28500

Project ID#: EN002-3P50IP3-04

Received: 05/03/2006

Delivery Date: 05/17/2006

P.O. #: 4500539361

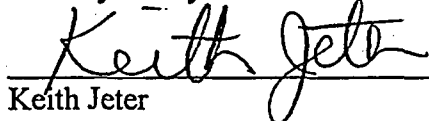
Release #:

SDG #:

This is to certify that Teledyne Brown Engineering - Environmental Services located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.



Keith Jeter
Operations Manager

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
IP3-06-083	L28500-1	HUDSON R. MH1
IP3-06-084	L28500-2	SHORESED MH1

Report of Analysis

05/26/06 15:33

L28500

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

 **TELEDYNE
BROWN ENGINEERING, INC.**
A Teledyne Technologies Company

Sample ID: **IP3-06-083**

Station: HUDSON R. MH1

Description:

LIMS Number: L28500-1

Collect Start: 04/18/2006 13:30

Collect Stop:

Receive Date: 05/03/2006

Matrix: River Water

(WR)

Volume:

% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
H-3	2010	1.52E+02	1.09E+02	1.72E+02	pCi/L	R1	10	ml		05/24/06	140	M U	
SR-90	2019	-1.21E-01	3.35E-01	5.60E-01	pCi/L		450	ml	04/18/06 13:30	05/26/06	800	M U	
TOTAL SR	2018	2.53E-01	4.62E-01	7.44E-01	pCi/L		450	ml	04/18/06 13:30	05/19/06	400	M U	
BE-7	2007	3.26E+00	3.09E+01	5.16E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
K-40	2007	4.35E+01	4.15E+01	8.28E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
CR-51	2007	-7.46E+00	4.16E+01	6.66E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
MN-54	2007	3.20E+00	3.14E+00	5.56E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
CO-57	2007	1.75E+00	2.47E+00	4.24E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
CO-58	2007	-1.96E+00	3.68E+00	5.75E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
FE-59	2007	-3.97E-01	7.90E+00	1.30E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
CO-60	2007	-4.76E-01	3.23E+00	5.28E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
ZN-65	2007	8.97E+00	6.86E+00	1.24E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
NB-94	2007	-2.05E+00	2.92E+00	4.59E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
NB-95	2007	-7.77E-02	3.51E+00	5.72E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
ZR-95	2007	-1.81E+00	6.16E+00	9.86E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
MO-99	2007	-7.79E+02	6.75E+03	1.10E+04	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
RU-103	2007	3.51E+00	4.10E+00	7.13E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
RU-106	2007	-4.56E+00	2.72E+01	4.36E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
AG-110M	2007	-1.52E+00	3.01E+00	4.82E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
SB-124	2007	-1.23E+01	5.20E+00	5.64E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
SB-125	2007	3.76E+00	8.16E+00	1.37E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
I-131	2007	-6.49E+00	1.80E+01	2.92E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
CS-134	2007	7.81E-01	3.58E+00	5.01E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
CS-137	2007	2.10E+00	3.07E+00	5.31E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
BA-140	2007	-5.01E+00	3.37E+01	5.49E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
LA-140	2007	3.71E+00	1.05E+01	1.80E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
CE-141	2007	-1.29E+00	7.53E+00	1.06E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No
CE-144	2007	2.98E+00	2.20E+01	3.18E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec U	No

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

05/26/06 15:33

L28500

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem



**TELEDYNE
BROWN ENGINEERING, INC.**
A Teledyne Technologies Company

Sample ID: IP3-06-083					Collect Start: 04/18/2006 13:30					Matrix: River Water					(WR)	
Station: HUDSON R. MH1					Collect Stop:					Volume:						
Description:					Receive Date: 05/03/2006					% Moisture:						
LIMS Number: L28500-1																
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
EU-154	2007	2.93E+00	4.98E+00	8.52E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U	No		
RA-226	2007	1.43E+00	6.38E+01	1.07E+02	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U	No		
TH-228	2007	1.15E-01	5.23E+00	8.98E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U	No		
TH-232	2007	2.44E+00	1.07E+01	1.87E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U	No		

Flag Values

U = Compound/Analyte not detected or less than 3 sigma
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
 U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
 High = Activity concentration exceeds customer reporting value
 Spec = MDC exceeds customer technical specification
 L = Low recovery
 H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
 Yes = Peak identified in gamma spectrum
 **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

05/26/06 15:33

L28500

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-084		Collect Start: 04/18/2006 13:30				Matrix: Soil				(S)					
Station: SHORESED MH1		Collect Stop:				Volume:									
Description:		Receive Date: 05/03/2006				% Moisture: 3.62									
LIMS Number: L28500-2															
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2003	7.71E-01	2.30E-01	3.41E-01	pCi/g	R1	5.0738	g wet		05/24/06	140	M	+		
SR-90	2019	3.26E-03	4.07E-02	6.69E-02	pCi/g Dry		5.0717	g dry	04/18/06 13:30	05/26/06	800	M	U		
TOTAL SR	2018	-4.35E-03	5.11E-02	8.44E-02	pCi/g Dry		5.0717	g dry	04/18/06 13:30	05/19/06	400	M	U		
BE-7	2007	3.37E-01	3.50E-01	6.08E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
K-40	2007	8.39E+00	9.90E-01	4.77E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	+		Yes
CR-51	2007	6.46E-02	4.47E-01	7.46E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
MN-54	2007	2.18E-02	3.45E-02	6.05E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
CO-57	2007	4.94E-03	2.61E-02	4.39E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
CO-58	2007	2.32E-02	4.23E-02	7.36E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
FE-59	2007	2.16E-03	9.77E-02	1.60E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
CO-60	2007	-1.81E-02	3.64E-02	5.59E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
ZN-65	2007	6.98E-02	8.93E-02	1.56E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
NB-94	2007	1.66E-02	3.33E-02	5.66E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
NB-95	2007	-5.04E-03	4.01E-02	6.42E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
ZR-95	2007	1.26E-02	7.55E-02	1.25E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
MO-99	2007	5.32E+01	1.14E+02	1.93E+02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
RU-103	2007	-2.05E-03	4.32E-02	7.17E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
RU-106	2007	9.80E-02	3.04E-01	5.13E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
AG-110M	2007	-1.12E-03	3.35E-02	5.48E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
SB-124	2007	4.29E-03	4.86E-02	6.84E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
SB-125	2007	6.46E-02	9.49E-02	1.62E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
I-131	2007	4.43E-02	2.35E-01	3.92E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
CS-134	2007	4.25E-02	4.27E-02	6.55E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
CS-137	2007	-3.81E-03	3.32E-02	5.38E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
BA-140	2007	3.29E-02	3.81E-01	6.35E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
LA-140	2007	-5.16E-02	1.13E-01	1.72E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
CE-141	2007	-3.57E-02	6.96E-02	1.13E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No
CE-144	2007	-7.76E-02	1.99E-01	3.25E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U		No

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

05/26/06 15:33

L28500

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem



**TELEDYNE
BROWN ENGINEERING, INC.**
A Teledyne Technologies Company

Sample ID: IP3-06-084				Collect Start: 04/18/2006 13:30				Matrix: Soil				(S)		
Station: SHORESED MH1				Collect Stop:				Volume:						
Description:				Receive Date: 05/03/2006				% Moisture: 3.62						
LIMS Number: L28500-2														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
EU-154	2007	3.78E-04	5.21E-02	8.70E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
RA-226	2007	4.64E-01	6.64E-01	1.14E+00	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
TH-228	2007	1.29E-01	6.12E-02	1.09E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U*	No
TH-232	2007	1.83E-01	1.17E-01	2.08E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	Yes

Flag Values

U = Compound/Analyte not detected or less than 3 sigma
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
 U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
 High = Activity concentration exceeds customer reporting value
 Spec = MDC exceeds customer technical specification
 L = Low recovery
 H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
 Yes = Peak identified in gamma spectrum
 **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Indian Point Energy Center

Entergy Nuclear Operations, Inc.
Sample Collection/Receipt Sheet

L28500
p.8c

1

unit yr id# format IPX-XX.XXX Teledyne Sample #	Sample ID	Sample Type	Start date	Start time	Stop date	Stop time	Volume or Area	Analysis	Comments	Sample Size Units	Plant Code
IP3-06-083	Hudson River at MH-1	WR	18-Apr-06	13:30			1.000E+00	SR-90, H-3, GELI, SR-FAST	Count to Enviromental LLDs; RUSH	GAL	EN002-3P50IP3-04
IP3-06-084	Sediment of shoreline at MH-1	SH	18-Apr-06	13:30			5.000E+02	SR-90, H-3, GELI, SR-FAST	Count to Enviromental LLDs; RUSH	ML	EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04

Collected by:
Shipped by:
Received by: *Pat Marshall*

IP3

Count to Envirmental LLDs;
Count H3 to 200 pCi/L

Rush sample results

05/08/06 13:56

Teledyne Brown Engineering
Sample Receipt Verification/Variance Report

SR #: SR08193

Client: Entergy Nuclear Operations, Project #: EN002-3P50IP3-04

LIMS #: L28500

Initiated By: PMARSHALL

Init Date: 05/05/06

Receive Date: 05/03/06

Notification of Variance

Person Notified:

Contacted By:

Notify Date:

Notify Method:

Notify Comment:

Client Response

Person Responding:

Response Date:

Response Method:

Response Comment

Criteria	Yes	No	NA	Comment
1 Shipping container custody seals present and intact.			NA	
2 Sample container custody seals present and intact.			NA	
3 Sample containers received in good condition		Y		
4 Chain of custody received with samples		Y		
5 All samples listed on chain of custody received		Y		
6 Sample container labels present and legible.		Y		
7 Information on container labels correspond with chain of custody		Y		
8 Sample(s) properly preserved and in appropriate container(s)			NA	
9 Other (Describe)			N	
Samples are designated as environmental for LLD purposes only. Samples were accompanied by rad paperwork.				

WMG, Inc.		RADIOACTIVE MATERIAL MANIFEST		SHIPPING PAPER		5. SHIPPER - NAME AND FACILITY Entergy Nuclear Northeast Indian Point Energy Center 450 Broadway, Suite 1 P.O. Box 249 Buchanan, NY 10511-0249		7. PAGE 1 OF 1 PAGE(S)		8. SHIPMENT NUMBER (Use this number on all continuation pages) 08 - 124	
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) (914) 734-5028, 5029		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1		2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		4. DOES EPA REGULATE WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If "Yes," provide Manifest Number		5. SHIPPER LICENSE NO. DPR-26		6. CARRIER - Name and Address Federal Express	
ORGANIZATION Control Room		EPA MANIFEST NUMBER N/A		CONTACT William Scholtens		TELEPHONE NUMBER (Include Area Code) (914) 734-5405		SHIPPER ID NUMBER DPR-26		9. CONSIGNEE - Name and Facility Address Teledyne Brown Engineering 2508 Quality Lane Knoxville, TN 37931-3133	
				CONTACT William Scholtens		EPA ID NUMBER N/A		SIGNATURE - Authorized carrier acknowledging material receipt [Signature]		DATE 04/25/2006	
				CONTACT William Scholtens		TELEPHONE NUMBER (Include Area Code) (800) 463-3339		SIGNATURE - Authorized consignee acknowledging receipt [Signature]		DATE 04/25/2006	
				CONTACT William Scholtens		TELEPHONE NUMBER (Include Area Code) (800) 463-3339		SIGNATURE - Authorized consignee acknowledging receipt [Signature]		DATE 04/25/2006	
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**TELEDYNE
BROWN ENGINEERING, INC.**

A Teledyne Technologies Company

2508 Quality Lane

Knoxville, TN 37931-3133

Floyd Hood, Chem
Entergy Nuclear Northeast
Indian Point Energy Center
295 Broadway - Suite 3, P.O. Box 308
Buchanan NY 10511-0308

Report of Analysis/Certificate of Conformance

05/26/2006

LIMS #: L28501

Project ID#: EN002-3P50IP3-04

Received: 05/03/2006

Delivery Date: 06/02/2006

P.O. #: 4500539361

Release #:

SDG #:

This is to certify that Teledyne Brown Engineering - Environmental Services located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.



Keith Jeter
Operations Manager

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
IP3-06-086	L28501-1	SOIL 1 15FT TB MH2
IP3-06-087	L28501-2	SOIL 2 15FT TB MH2
IP3-06-088	L28501-3	MW-48 52FT
IP3-06-089	L28501-4	MW-48 37FT
IP3-06-090	L28501-5	SHORE S OF MW-48

Report of Analysis

05/26/06 15:55

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28501

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-086		Collect Start: 04/27/2006 11:55				Matrix: Soil				(S)					
Station: SOIL 1 15FT TB MH2		Collect Stop:				Volume:									
Description:		Receive Date: 05/03/2006				% Moisture: 7.43									
LIMS Number: L28501-1															
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2003	2.79E-01	2.19E-01	3.46E-01	pCi/g	R1	5.0111	g wet		05/24/06	140	M	U		
SR-90	2019	1.62E-02	1.59E-02	2.50E-02	pCi/g Dry		100	g dry	04/27/06 11:55	05/26/06	800	M	U		
BE-7	2007	2.72E-02	2.73E-01	4.48E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
K-40	2007	1.58E+01	1.14E+00	4.75E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	+		Yes
CR-51	2007	7.37E-02	3.10E-01	5.10E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
MN-54	2007	2.83E-03	3.25E-02	5.41E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
CO-57	2007	-7.14E-03	2.23E-02	3.66E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
CO-58	2007	-2.12E-02	3.44E-02	5.44E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
FE-59	2007	-3.35E-02	8.74E-02	1.41E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
CO-60	2007	1.64E-02	3.74E-02	6.52E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
ZN-65	2007	5.88E-02	1.02E-01	1.50E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
NB-94	2007	3.97E-02	3.00E-02	5.32E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
NB-95	2007	3.13E-02	3.89E-02	6.65E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
ZR-95	2007	-8.07E-03	6.58E-02	1.06E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
MO-99	2007	4.08E-01	1.07E+01	1.67E+01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
RU-103	2007	1.93E-02	3.50E-02	5.90E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
RU-106	2007	-5.12E-02	2.71E-01	4.41E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
AG-110M	2007	-7.61E-03	3.15E-02	5.09E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
SB-124	2007	7.62E-03	4.17E-02	5.94E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
SB-125	2007	-2.60E-02	7.93E-02	1.28E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
I-131	2007	8.91E-02	9.20E-02	1.61E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
CS-134	2007	7.28E-02	3.88E-02	6.20E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U*		No
CS-137	2007	3.42E-02	3.34E-02	5.84E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
BA-140	2007	4.08E-02	2.34E-01	3.83E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
LA-140	2007	-1.86E-02	8.54E-02	1.12E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
CE-141	2007	-1.57E-02	5.34E-02	8.69E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
CE-144	2007	-1.51E-01	1.79E-01	2.86E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No
EU-154	2007	-3.47E-02	4.60E-02	7.44E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	U		No

Flag Values
 U = Compound/Analyte not detected or less than 3 sigma
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
 U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
 High = Activity concentration exceeds customer reporting value
 Spec = MDC exceeds customer technical specification
 L = Low recovery
 H = High recovery

No = Peak not identified in gamma spectrum
 Yes = Peak identified in gamma spectrum
 **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.

Report of Analysis

05/26/06 15:55

L28501

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-086				Collect Start: 04/27/2006 11:55				Matrix: Soil				(S)			
Station: SOIL 1 15FT TB MH2				Collect Stop:				Volume:							
Description:				Receive Date: 05/03/2006				% Moisture: 7.43							
LIMS Number: L28501-1															
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
RA-226	2007	1.28E+00	7.36E-01	9.53E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	+	Yes	
TH-228	2007	5.25E-01	8.00E-02	7.88E-02	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	+	Yes	
TH-232	2007	4.62E-01	1.20E-01	3.15E-01	pCi/g Dry		341.17	g dry	04/27/06 11:55	05/12/06	6000	Sec	+	Yes	

Flag Values

U = Compound/Analyte not detected or less than 3 sigma
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
 U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
 High = Activity concentration exceeds customer reporting value
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No = Peak not identified in gamma spectrum
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 **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

05/26/06 15:55

L28501

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-087		Collect Start: 04/27/2006 11:55				Matrix: Soil				(S)				
Station: SOIL 2 15FT TB MH2		Collect Stop:				Volume:								
Description:		Receive Date: 05/03/2006				% Moisture: 7.98								
LIMS Number: L28501-2														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
H-3	2003	-1.90E-01	2.39E-01	4.03E-01	pCi/g		5.0588	g dry		05/19/06	135	M	U	
SR-90	2019	-1.71E-02	2.47E-02	4.17E-02	pCi/g Dry		6.6375	g dry	04/27/06 11:55	05/26/06	800	M	U	
BE-7	2007	-9.09E-02	3.05E-01	5.11E-01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
K-40	2007	1.60E+01	1.09E+00	4.34E-01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	+	Yes
CR-51	2007	-3.55E-01	3.31E-01	5.46E-01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
MN-54	2007	1.79E-02	3.18E-02	5.80E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
CO-57	2007	-1.80E-02	2.54E-02	4.11E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
CO-58	2007	-2.92E-02	3.62E-02	5.86E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
FE-59	2007	2.47E-02	7.94E-02	1.41E-01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
CO-60	2007	-4.74E-03	3.26E-02	5.73E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
ZN-65	2007	2.12E-01	9.84E-02	1.71E-01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U*	No
NB-94	2007	-1.23E-02	3.22E-02	5.41E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
NB-95	2007	3.51E-02	4.02E-02	7.24E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
ZR-95	2007	-4.90E-02	6.43E-02	1.05E-01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
MO-99	2007	9.51E+00	1.12E+01	2.01E+01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
RU-103	2007	-1.72E-02	3.60E-02	5.97E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
RU-106	2007	-5.95E-02	2.93E-01	5.03E-01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
AG-110M	2007	-6.72E-03	3.26E-02	5.57E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
SB-124	2007	-2.21E-03	4.15E-02	6.08E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
SB-125	2007	-8.08E-02	8.29E-02	1.35E-01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
I-131	2007	-4.18E-02	1.05E-01	1.77E-01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
CS-134	2007	1.55E-01	4.00E-02	7.35E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U*	No
CS-137	2007	1.83E-02	3.50E-02	6.24E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
BA-140	2007	-5.15E-02	2.39E-01	4.13E-01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
LA-140	2007	-4.50E-02	6.85E-02	1.13E-01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
CE-141	2007	8.02E-03	5.64E-02	9.71E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
CE-144	2007	-2.14E-01	1.97E-01	3.13E-01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No
EU-154	2007	-4.22E-02	5.20E-02	8.40E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	U	No

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

05/26/06 15:55

L28501

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-087				Collect Start: 04/27/2006 11:55				Matrix: Soil				(S)		
Station: SOIL 2 15FT TB MH2				Collect Stop:				Volume:						
Description:				Receive Date: 05/03/2006				% Moisture: 7.98						
LIMS Number: L28501-2														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
RA-226	2007	1.66E+00	7.11E-01	1.03E+00	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	+	Yes
TH-228	2007	6.16E-01	6.51E-02	8.92E-02	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	+	Yes
TH-232	2007	6.04E-01	9.76E-02	2.06E-01	pCi/g Dry		340.54	g dry	04/27/06 11:55	05/12/06	6000	Sec	+	Yes

Flag Values

U = Compound/Analyte not detected or less than 3 sigma
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
 U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
 High = Activity concentration exceeds customer reporting value
 Spec = MDC exceeds customer technical specification
 L = Low recovery
 H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
 Yes = Peak identified in gamma spectrum
 **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

05/26/06 15:55

L28501

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE
BROWN ENGINEERING, INC.**
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-088					Collect Start: 04/27/2006 13:42					Matrix: Ground Water					(WG)				
Station: MW-48 52FT					Collect Stop:					Volume:									
Description:					Receive Date: 05/03/2006					% Moisture:									
LIMS Number: L28501-3																			
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Allquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values						
H-3	2010	2.38E+02	1.29E+02	2.03E+02	pCi/L		10	ml		05/19/06	135	M	+						
SR-90	2019	-2.50E-02	3.05E-01	5.04E-01	pCi/L		450	ml	04/27/06 13:42	05/26/06	800	M	U						
BE-7	2007	2.06E+01	3.03E+01	5.40E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
K-40	2007	7.97E+01	4.61E+01	4.76E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	+		Yes				
CR-51	2007	-2.52E+01	3.72E+01	6.24E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
MN-54	2007	2.85E+00	3.17E+00	5.96E+00	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
CO-57	2007	1.32E+00	3.13E+00	5.26E+00	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
CO-58	2007	-7.89E-01	3.33E+00	5.66E+00	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
FE-59	2007	-9.05E-01	6.28E+00	1.10E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
CO-60	2007	-1.19E-01	2.93E+00	5.27E+00	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
ZN-65	2007	6.55E+00	7.18E+00	1.20E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
NB-94	2007	-2.99E+00	2.87E+00	4.61E+00	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
NB-95	2007	-2.32E+00	3.21E+00	5.25E+00	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
ZR-95	2007	1.66E+00	6.03E+00	1.07E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
MO-99	2007	-1.73E+02	7.59E+02	1.30E+03	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
RU-103	2007	1.94E+00	3.97E+00	6.97E+00	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
RU-106	2007	1.47E+01	2.88E+01	5.14E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
AG-110M	2007	-1.91E+00	3.17E+00	5.30E+00	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
SB-124	2007	-6.17E+00	4.36E+00	5.56E+00	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
SB-125	2007	9.22E-01	9.02E+00	1.56E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
I-131	2007	-1.16E+00	1.06E+01	1.81E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
CS-134	2007	5.50E-01	3.89E+00	5.80E+00	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
CS-137	2007	-1.88E+00	3.37E+00	5.65E+00	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
BA-140	2007	4.69E+00	2.10E+01	3.75E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
LA-140	2007	1.25E+00	6.88E+00	1.26E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
CE-141	2007	-5.37E+00	6.93E+00	1.16E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
CE-144	2007	-3.06E+00	2.48E+01	4.09E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				
EU-154	2007	3.98E+00	6.38E+00	1.08E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U		No				

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- U* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
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- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

05/26/06 15:55

L28501

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-088			Collect Start: 04/27/2006 13:42			Matrix: Ground Water			(WG)				
Station: MW-48 52FT			Collect Stop:			Volume:							
Description:			Receive Date: 05/03/2006			% Moisture:							
LIMS Number: L28501-3													
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
RA-226	2007	3.40E+01	7.86E+01	1.40E+02	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U No
TH-228	2007	2.22E+00	4.73E+00	9.54E+00	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U Yes
TH-232	2007	4.01E+00	1.08E+01	2.02E+01	pCi/L		3197.25	ml	04/27/06 13:42	05/11/06	9258	Sec	U No

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
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MDC - Minimum Detectable Concentration

Report of Analysis

05/26/06 15:55

L28501

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE
BROWN ENGINEERING, INC.**
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-089		Collect Start: 04/27/2006 13:20				Matrix: Ground Water				(WG)						
Station: MW-48 37FT		Collect Stop:				Volume:										
Description:		Receive Date: 05/03/2006				% Moisture:										
LIMS Number: L28501-4																
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3	2010	-2.15E+02	1.18E+02	2.04E+02	pCi/L		10	ml		05/19/06	135	M	U	Spec		
SR-90	2019	-4.96E-02	2.53E-01	4.20E-01	pCi/L		450	ml	04/27/06 13:20	05/26/06	800	M	U			
BE-7	2007	4.42E+00	5.41E+01	8.94E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
K-40	2007	2.26E+01	5.56E+01	7.99E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		Yes	
CR-51	2007	-4.15E+01	7.00E+01	1.13E+02	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
MN-54	2007	-1.21E+00	5.57E+00	8.95E+00	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
CO-57	2007	-1.14E+00	6.05E+00	1.00E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
CO-58	2007	3.46E+00	7.70E+00	1.10E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
FE-59	2007	-5.66E-01	1.26E+01	2.06E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
CO-60	2007	-3.17E-01	5.61E+00	9.20E+00	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
ZN-65	2007	1.07E+02	1.90E+01	3.58E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U*		No	
NB-94	2007	1.87E+00	5.00E+00	8.41E+00	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
NB-95	2007	2.90E+01	8.08E+00	1.39E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U*		No	
ZR-95	2007	-5.97E+00	1.18E+01	1.73E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
MO-99	2007	5.59E+02	1.32E+03	2.23E+03	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
RU-103	2007	-1.32E+00	6.80E+00	1.11E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
RU-106	2007	-2.65E+01	5.07E+01	7.83E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
AG-110M	2007	6.66E+00	5.31E+00	8.26E+00	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
SB-124	2007	-9.39E+00	8.11E+00	1.02E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
SB-125	2007	2.83E+00	1.67E+01	2.78E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
I-131	2007	1.05E+01	1.96E+01	3.24E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
CS-134	2007	9.86E+01	1.01E+01	1.91E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U*		No	
CS-137	2007	7.95E+00	6.61E+00	1.01E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
BA-140	2007	-1.88E+00	4.22E+01	6.88E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
LA-140	2007	1.33E+01	1.38E+01	2.47E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
CE-141	2007	-1.65E+01	1.42E+01	2.28E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
CE-144	2007	-6.13E+01	4.75E+01	7.66E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	
EU-154	2007	-4.14E+00	1.24E+01	2.05E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U		No	

Flag Values

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- No = Peak not identified in gamma spectrum
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MDC - Minimum Detectable Concentration

Report of Analysis

05/26/06 15:55

L28501

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE
BROWN ENGINEERING, INC.**
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-089				Collect Start: 04/27/2006 13:20				Matrix: Ground Water				(WG)			
Station: MW-48 37FT				Collect Stop:				Volume:							
Description:				Receive Date: 05/03/2006				% Moisture:							
LIMS Number: L28501-4															
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
RA-226	2007	1.51E+01	1.54E+02	2.53E+02	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U	No	
TH-228	2007	5.27E+01	1.47E+01	2.33E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U*	No	
TH-232	2007	-8.68E+00	2.03E+01	3.32E+01	pCi/L		3093.99	ml	04/27/06 13:20	05/11/06	9278	Sec	U	No	

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

05/26/06 15:55

L28501

Entergy Nuclear Northeast

EN002-3P50IP3-04

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-090
Station: SHORE S OF MW-48
Description:
LIMS Number: L28501-5

Collect Start: 04/27/2006 14:25
Collect Stop:
Receive Date: 05/03/2006

Matrix: River Water (WR)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
H-3	2010	-2.13E+02	1.17E+02	2.03E+02	pCi/L		10	ml		05/19/06	135	M U	
SR-90	2019	-2.68E-01	5.23E-01	8.80E-01	pCi/L		450	ml	04/27/06 14:25	05/26/06	800	M U	
BE-7	2007	2.49E+01	3.23E+01	5.57E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
K-40	2007	4.21E+01	5.42E+01	5.55E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	Yes
CR-51	2007	-2.60E+01	4.17E+01	6.55E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
MN-54	2007	3.87E+00	3.35E+00	6.09E+00	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
CO-57	2007	4.98E-01	3.17E+00	5.29E+00	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
CO-58	2007	-4.20E+00	3.80E+00	5.68E+00	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
FE-59	2007	4.80E+00	8.27E+00	1.44E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
CO-60	2007	-5.40E+00	4.09E+00	6.05E+00	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
ZN-65	2007	2.63E+00	8.01E+00	1.37E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
NB-94	2007	-2.09E+00	3.42E+00	5.31E+00	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
NB-95	2007	1.35E+00	3.80E+00	6.36E+00	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
ZR-95	2007	-1.43E+00	6.88E+00	1.10E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
MO-99	2007	2.21E+02	8.27E+02	1.38E+03	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
RU-103	2007	3.29E+00	4.58E+00	7.80E+00	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
RU-106	2007	6.62E+00	3.12E+01	5.23E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
AG-110M	2007	8.88E-01	3.41E+00	5.71E+00	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
SB-124	2007	4.59E+00	5.96E+00	5.66E+00	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
SB-125	2007	4.92E+00	9.05E+00	1.55E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
I-131	2007	3.69E+00	1.08E+01	1.84E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
CS-134	2007	6.58E+00	5.30E+00	5.55E+00	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
CS-137	2007	-6.35E-01	3.70E+00	6.00E+00	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
BA-140	2007	7.97E+00	2.43E+01	4.03E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
LA-140	2007	2.28E+00	8.44E+00	1.43E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
CE-141	2007	1.90E+00	7.97E+00	1.14E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
CE-144	2007	1.19E+01	2.60E+01	4.07E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No
EU-154	2007	1.93E+00	6.46E+00	1.08E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No

Flag Values
 U = Compound/Analyte not detected or less than 3 sigma
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
 U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
 High = Activity concentration exceeds customer reporting value
 Spec = MDC exceeds customer technical specification
 L = Low recovery
 H = High recovery

No = Peak not identified in gamma spectrum
 Yes = Peak identified in gamma spectrum
 **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.

L28501 10 of 14

Report of Analysis

05/26/06 15:55



**TELEDYNE
BROWN ENGINEERING, INC.**
A Teledyne Technologies Company

L28501

Entergy Nuclear Northeast

Floyd Hood, Chem

EN002-3P50IP3-04

Sample ID: IP3-06-090			Collect Start: 04/27/2006 14:25			Matrix: River Water			(WR)				
Station: SHORE S OF MW-48			Collect Stop:			Volume:							
Description:			Receive Date: 05/03/2006			% Moisture:							
LIMS Number: L28501-5													
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
RA-226	2007	1.96E+01	9.06E+01	1.27E+02	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	Yes
TH-228	2007	6.46E-01	6.64E+00	9.78E+00	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	Yes
TH-232	2007	-7.29E+00	1.36E+01	2.25E+01	pCi/L		2940.12	ml	04/27/06 14:25	05/11/06	9301	Sec U	No

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

L28501
PSC

Indian Point Energy Center

Entergy Nuclear Operations, Inc.

Sample Collection/Receipt Sheet

1

unit yr id# format (IPX-XX-XXXX)Teledyne	Sample ID	Sample Type	Start date	Start time	Stop date	Stop time	Volume or Area	Analysis	Comments	Sample Size Units	Plant Code
IP3-06-086	SOIL #1, 15' TURBINE BLGD, NEAR MH-2	ST	27-Apr-06	11:55			1.000E+03	SR-90, H-3, GELI	Count to Envirmental LLDs; Count H3 to 200 pCi/L	ML	EN002-3P50IP3-04
IP3-06-087	SOIL #2, 15' TURBINE BLGD, NEAR MH-2	ST	27-Apr-06	11:55			1.000E+03	SR-90, H-3, GELI	Count to Envirmental LLDs; Count H3 to 200 pCi/L	ML	EN002-3P50IP3-04
IP3-06-088	MW-48, 52' DEPTH	WG	27-Apr-06	13:42			1.000E+00	SR-90, H-3, GELI	Count to Envirmental LLDs; Count H3 to 200 pCi/L	GAL	EN002-3P50IP3-04
IP3-06-089	MW-48, 37' DEPTH	WG	27-Apr-06	13:20			1.000E+00	SR-90, H-3, GELI	Count to Envirmental LLDs; Count H3 to 200 pCi/L	GAL	EN002-3P50IP3-04
IP3-06-090	SHORELINE WATER S OF MW-48	WR	27-Apr-06	14:25			1.000E+00	SR-90, H-3, GELI	Count to Envirmental LLDs; Count H3 to 200 pCi/L	GAL	EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04

Collected by:

Shipped by:

Received by: *Pat Marshall 5/3/06*

Count to Envirmental LLDs;
Count H3 to 200 pCi/L

IP3

L28501 12 OF 14

[illegible]

05/08/06 13:56

Teledyne Brown Engineering
Sample Receipt Verification/Variance Report

SR #: SR08194

Client: Entergy Nuclear Operations, Project #: EN002-3P50IP3-04

LIMS #: L28501

Initiated By: PMARSHALL

Init Date: 05/05/06

Receive Date: 05/05/06

Notification of Variance

Person Notified:

Contacted By:

Notify Date:

Notify Method:

Notify Comment:

Client Response

Person Responding:

Response Date:

Response Method:

Response Comment

Criteria	Yes	No	NA	Comment
1 Shipping container custody seals present and intact.			NA	
2 Sample container custody seals present and intact.			NA	
3 Sample containers received in good condition			Y	
4 Chain of custody received with samples			Y	
5 All samples listed on chain of custody received			Y	
6 Sample container labels present and legible.			Y	
7 Information on container labels correspond with chain of custody			Y	
8 Sample(s) properly preserved and in appropriate container(s)			NA	
9 Other (Describe)			N	

Samples are designated as environmental for LLD purposes only. Samples were accompanied by rad paperwork.



**TELEDYNE
BROWN ENGINEERING, INC.**

A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

L28593 1 of 4

Floyd Hood, Chem
Entergy Nuclear Northeast
Indian Point Energy Center
295 Broadway - Suite 3, P.O. Box 308
Buchanan NY 10511-0308

Report of Analysis/Certificate of Conformance

05/26/2006

LIMS #: L28593

Project ID#: EN002-3P50IP3-04

Received: 05/03/2006

Delivery Date: 05/17/2006

P.O. #: 4500539361

Release #:

SDG #:

This is to certify that Teledyne Brown Engineering - Environmental Services located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.


Keith Jeter
Operations Manager

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
IP3-06-081	L28593-1	U1 CON SPRAY SMP BTM
IP3-06-082	L28593-2	U1 CON SPRAY SMP SUR

Report of Analysis

05/26/06 11:35

L28593

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem



TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Sample ID: IP3-06-081 Station: U1 CON SPRAY SMP BTM Description: LIMS Number: L28593-1						Collect Start: 04/24/2006 16:30 Collect Stop: Receive Date: 05/03/2006				Matrix: Liquid Radwaste (LR) Volume: % Moisture:			
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
NI-63	2013	2.95E-08	9.06E-09	1.39E-08	uCi/ml		100	ml		05/12/06	100	M	+
SR-89	2019	1.68E-08	7.10E-09	1.12E-08	uCi/ml		450	ml	04/24/06 16:30	05/23/06	200	M	+
SR-90	2019	3.00E-07	5.31E-09	1.48E-09	uCi/ml		450	ml	04/24/06 16:30	05/26/06	400	M	+
TOTAL SR	2018	2.64E-07	1.57E-08	3.83E-09	uCi/ml		450	ml	04/24/06 16:30	05/16/06	15	M	+
Sample ID: IP3-06-082 Station: U1 CON SPRAY SMP SUR Description: LIMS Number: L28593-2						Collect Start: 04/24/2006 17:00 Collect Stop: Receive Date: 05/03/2006				Matrix: Liquid Radwaste (LR) Volume: % Moisture:			
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
NI-63	2013	2.92E-08	9.06E-09	1.40E-08	uCi/ml		100	ml		05/12/06	100	M	+
SR-89	2019	-3.68E-09	7.41E-09	1.23E-08	uCi/ml		450	ml	04/24/06 17:00	05/23/06	200	M	U
SR-90	2019	3.21E-07	5.54E-09	1.54E-09	uCi/ml		450	ml	04/24/06 17:00	05/26/06	400	M	+
TOTAL SR	2018	2.99E-07	1.79E-08	3.78E-09	uCi/ml		450	ml	04/24/06 17:00	05/16/06	15	M	+

Flag Values

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Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
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MDC - Minimum Detectable Concentration

Indian Point Energy Center

Entergy Nuclear Operations, Inc.
Sample Collection/Receipt Sheet

[illegible]

Collected by:

Shipped by:

Received by:

IP3

**Count to Envirmental LLDs;
Count H3 to 200 pCi/L**

Rush sample results

Sr-89 added per request
from Floyd Hood 5-11-06
RJC

05/11/06 14:02

Teledyne Brown Engineering
Sample Receipt Verification/Variance Report

SR #: SR08320

Client: Entergy Nuclear Operations, Project #: EN002-3P50IP3-04

LIMS #: L28593

Initiated By: PMARSHALL

Init Date: 05/11/06 Receive Date: 05/11/06

Notification of Variance

Person Notified:

Contacted By:

Notify Date:

Notify Method:

Notify Comment:

Client Response

Person Responding:

Response Date:

Response Method:

Response Comment

Criteria	Yes	No	NA	Comment
1 Shipping container custody seals present and intact.			NA	
2 Sample container custody seals present and intact.			NA	
3 Sample containers received in good condition		Y		
4 Chain of custody received with samples		Y		
5 All samples listed on chain of custody received		Y		
6 Sample container labels present and legible.		Y		
7 Information on container labels correspond with chain of custody		Y		
8 Sample(s) properly preserved and in appropriate container(s)			NA	
9 Other (Describe)			NA	