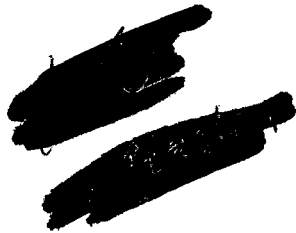

***** G A M M A S P E C T R U M A N A L Y S I S *****

OYSTER CREEK NUCLEAR GENERATING STATION CHEMISTRY DEPARTMENT

Detector Name : DET01
Report Generated On : 4/27/09 10:51:20 AM
Spectral Data File Name : C:\PCNT2K\CAMFILES\500MLBOT\102499.CNF
:
Sample Title : 500-mL Bottle
Sample Description : CSTG
User ID : AR
Sample Type : 1
Sample Geometry : 500-mL Bottle
Peak Locate Threshold : 3.00
Peak Locate Range (in channels) : 1 - 4096
Peak Area Range (in channels) : 100 - 4096
Identification Energy Tolerance : 1.000 keV
Sample Size : 500.00 cc
Sample Taken On : 4/27/09 10:10:00 AM
Acquisition Started : 4/27/09 10:34:38 AM
Decay Time : 2.46E+001 Minutes
Live Time : 1000.0 Seconds
Dead Time : 1000.4 Seconds
Lead Time : 0.04 %
Energy Calibration Used Done On : 1/8/09
Efficiency Calibration Used Done On : 8/3/06



F-30

***** BACKGROUND SUBTRACT REPORT *****

Detector Name: DET01

Sample Title: 500-mL Bottle

Peak Analysis Performed on: 4/27/09 10:51:20 AM

Peak No.	Energy (keV)	Original Area	Orig. Area Uncert.	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	81.23	2.82E+001	7.48			2.82E+001	7.48E+000
2	249.48	8.91E+001	10.05			8.91E+001	1.00E+001

1 = First peak in a multiplet region
2 = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****

Sample Title: 500-mL Bottle
Nuclide Library Used: C:\GENIE2K\CAMFILES\ANL002.NLB

..... IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/cc)	Activity Uncertainty
XE-133	0.992	81.00*	36.72	1.18E-006	3.27E-007
XE-135	0.952	249.79*	89.90	9.58E-007	1.17E-007
		608.18	2.89		

* = Energy line found in the spectrum.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

 ***** INTERFERENCE CORRECTED REPORT *****

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (uCi/cc)	Wt mean Activity Uncertainty
XE-133	0.992	1.18E-006	3.27E-007
XE-135	0.952	9.58E-007	1.17E-007
Total Activity		2.14E-006	

? = nuclide is part of an undetermined solution

X = nuclide rejected by the interference analysis

@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 1.000 sigma

***** UNIDENTIFIED PEAKS *****

Peak Locate Performed on: 4/27/09 10:51:20 AM
 Peak Locate From Channel: 100
 Peak Locate To Channel: 4096

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
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All peaks were identified.

M = First peak in a multiplet region

m = Other peak in a multiplet region

F = Fitted singlet

Errors quoted at 1.000 sigma