Fermilab

Radioactive Waste Certification and Pickup Request Form

I certify that, to the best of my knowledge, the information entered below is accurate and the contents of the waste package has been checked for radioactivity and is not mixed waste (radioactive and hazardous).

Fermilab ID # 09634n **Name** Joel Fulgham **Signature** JM Fulgham

Location MI-12 **Div/Sec** AD **Ext.** 6525 **Pager** _____ **Date** 8/7/15

Generator # 4505 **Package Type** 55-Gallon Drum

Gross Weight 500.0 lbs. **Waste Volume** 7.40 cu.ft. **Contact Dose Rate** 0.05 ~~0.02~~ mR/hr

Empty Package Delivery
Qty. ____ Type ____

* Radionuclides	H-3	Na 22				
* Activities	3.98-4	2.63-8				

Sample Method ☑ Gamma Ray Spectroscopy ☑ Scintillation Counter (H-3) ☐ Dose Rate to Activity Conversion

Sample Numbers 150721JF01 (WR15-210)

(Attach copies of all analytical results pertaining to the waste.)

Routine ? ☒ YES ☐ NO

Div / Sec Coordinator Review
Sign TgB
Date 7/30/15

EP Pickup # 150283 **Pickup Date** 8-12-15 **By** Dan Cutt **Stor. Loc.** Site 40

Date	Description of Waste	Approximate Weight	Generator Signature (Signature certifies that description is accurate, waste is not hazardous, and has been checked for radioactivity)	Disposition of Items
7-27-15	Water	500 lbs.	JM Fulgham	
		lbs.		
		lbs.		
		lbs.		
		lbs.		
		lbs.		
		lbs.		
		lbs.		

RW Form #31 *(See Reverse For Instructions)* Revision Date 04/15/2015

Each waste item must be logged onto this form as it is loaded into the package. A "Continuation Sheet" is required when there are more than 8 waste items to be loaded into the package.

Date entered: 8-12-15 **By:** DC

Fermilab
ESH&Q Section/RAF

Radionuclide Analysis Facility
LSC Tritium Analysis Report
Issued by Ian H. Hoppie

Report Date: July 24, 2015
Work Request #: 15-210
Submitted by: Joel Fulgham on 7/21/15
Workbook: LSC 3180-2, page(s) 18

Booster-Neutrino Line

The Accelerator Division/ES&H Group submitted 1 water sample, on Work Request# 15-210, for analysis of tritium. This set was counted on 7/22/15 on a Packard Instruments model LSC 3180 TR/SL Tri-Carb LSC analyzer. The sample was analyzed 'as is', i.e., not neutralized or distilled unless noted below. The numbers quoted below represent the average of 2 determinations. Sample activity is reported as of the date of counting and corrected for dilution, if any.

SampleID#	Sample Time	Location/Description	Prep.	Radionuclide	Activity (pCi/mL)
150721JF01	8:54	MI-12 1000 Gallon Tank 2	Dist.	H-3	2,120 ± 20

cc: Accelerator Division Distribution List D. Cossairt E. Korzeniowski
M. Francis Ian Hoppie M. Quinn RAF Folder

150283

Fermilab
ESH&Q Section/RAF

Radionuclide Analysis Facility

Gamma Analysis Report

Issued by Ian H. Hoppie

Report Date: July 24, 2015
Work Request #: 15-210
Submitted by: Joel Fulgham on 7/21/15
Workbook: HPGe#2-10, page(s) 140

Booster-Neutrino Line

The Accelerator Division/ES&H Group submitted 1 water sample on Work Request# 15-210 for analysis of accelerator produced radionuclides. The sample was counted on detector HPGe#2. The following table lists the radionuclides detected in the sample along with the corresponding specific activity. If a sample activity was reported, it has been corrected to the time of sampling.

SampleID#	Sample Time	Location	Container	Count Info	Vol.	Count Date	Radionuclide	Activity (pCi/mL)
150721JF01	8:54	MI-12 1000 Gallon Tank 2	125 mL Poly Bottle	7200sec @ 4cm	107 mL	7/22/15 @ 7:49	Na-22	0.14 ± 0.07

cc: Accelerator Division Distribution List D. Cossairt E. Korzeniowski
M. Francis I. Hoppie M. Quinn RAF Folder