6 February 2024

FUNCTIONAL PROGRAM HRW NUCLEAR MED CAMERA OSHPD Project #SXXXXX-XX-XX

PROJECT SCOPE:

The scope of this project is limited to the following work:

Installation of a Nuclear Medicine camera for PECT Imaging, inclu g electrical connections and minor modifications o xisting casework and finishes. The equipment is being install in a roo constructed specifically for use as a Nuclear Med ine ro m within he "Ho ital Replacement Wing" ("HRW"), OSH D project M-XXXX X XX. The installation of a Nuc Med camer n the room has been de erred from the HRW's 2019 project completion un 1 now

SUPPORT SPACES:

The Nuclear Medicine room will ilize the xisting support spaces originally intended to serve it, nclu g the d signated Hot Lab, which are located within th Radiology S rvice a a of the HRW.

UTILITIES:

A new branch circuit w I be requided to serve the Nuc Med camera at its requided oltage; there is ufficient capacity in the existing electrical system to supert this load

The exi ing HVA tem has sufficient capacity to maintain the required air chang s an negative pressurization, as well as the temperature and humidity I Is preferred by the facility.

LIST OF PROCED RES:

following p ges

EQUIPMENT FLOOR PLAN

See last page for the Equipment Floor Plan

[Link to the functional program document]

Subject:

FW: Follow-up: [Facility]



2010 versus 2022 Code Analysis: [Facility]						
Requirement	2010 CBC Section	2022 CBC Section	Difference Between Code Editions	Code Compliance documented		
Radiation protection	1224.34.1.1	1224.34.1.1.	2022 requires Physicist to address dosing areas and circulation paths	Physicist's Report & Update letter see sheet A2.4 for existing 4# sheilding noted		
Room Size & Handwash Fixture	1224.34.1.2		Handwash fixture required only in Nuc Med Room			
SPECT Room Size		1224.34.1.2.3.1	4' Clearance at sides and foot; addit al space req'd for CT	Sh A2.4, note 7		
SPECT Control Room		1224.34.1.2.3.2	Control Room Required	Sheet A2.3, Room 212.1		
Imaging Equipment Room		1224.34.1.2.3.3	Equipme Room Required	N The prop d camera has al equ ent f-contained in the g ; see sheet A2.4		
Handwashing fixtures		1224.34.1.2.3.3	Handwash fixtures uired in patient s and are here iophar eutical ar ndled, prepar and dispos	Sh et A2.3; handwash fixture not rently provided in the Dosing Room		
Radiopharmacy	1224.34.1.3	1224.34.1.3	N Difference	See Sheet A2.1, A2.2 Room G214, 214.1.		
Nuc Med Department	1224.34.2	122	M r text changes to clarify requ ments when Nuc Med is within he Imaging Dept.	See Sheet A2.1, A2.2 for Nuc Mec spaces within Imaging Departmen		
Entrance	1224.34.2.1	1224.34.2	No Difference	See Sheet A2.1, A2.2		
Cleanup	1224.34.2.2	12 4 2.2	Minor text change: "convenient access" changed to "readily accessible."	See Sheet A2.1, A2.2 Room G252		
Consultation	24 34.2.3	1 34.2.3	No Difference	N/A		
Waiting	224.34.2.4	224.34.2.4	No Difference	See Sheet A2.1, A2.2 Room G116		
Dose Adm ea	12 34.2.5	1224.34.2.5	Minor text change: "locate near" changed to "immediately accessible."	See Sheet A2.1, A2.2 Room G253, G254		
Ho ng Area	1224.3 .6	1224.34.2.6	Title of area clarified; no difference in requirements	See Sheet A2.1, A2.2 Room G253, G254		
Patient Dressing Area	1224.34.2.7	1224.34.2.7	Minor text change: "locate near" changed to "immediately accessible."	See Sheet A2.1, A2.2 Room G210, G211		
Patient Toilet Room	1224.34.2.8	1224.34.2.8	Minor text change: "located convenient" changed to "immediately accessible."	See Sheet A2.1, A2.2 Room G255		
Staff Toilet Room	1224.34.2.9	1224.34.2.9	Minor text change: "located convenient" changed to "readily accessible."	See Sheet A2.1, A2.2 Room G259		
Handwashing Stations	1224.34.2.10	1224.34.2.10	Minor text change: "fixtures" changed to "stations."	See Sheet A2.3		

Control Desk & Reception	1224.34.2.11	1224.34.2.11	No Difference	See Sheet A2.1, A2.2 Room G115
Storage Area for Clean Linen	1224.34.2.12	1224.34.2.12	No Difference	See Sheet A2.1, A2.2 Room G251
Soiled & Contaminated Material	1224.34.2.13	1224.34.2.13	Minor text change: "fixtures" changed to "stations."	See Sheet A2.1, A2.2 Room G252
Hot Lab		1224.34.2.14	Securable area required with shielding and dose & storage areas	See Sheet A2.1, A2.2 Room G214, 214.1.
Ventilation	2010 CMC Table 4-A	2022 CMC Table 4-A	No Difference in Negative Pressure or Changes; 70-75 Temperature crit a now required	Fun onal Program
Plumbing Fixtures	2010 CPC Table 4-2	2022 CPC Table 4-2	No Difference	See Sheet A



Therapy Physics, Inc.

Diagnostic Radiology Physics Services Radiation Protection Shielding Design Radiation Oncology Physics Services www.therapyphysics.com

Radiation Shielding Design Review

Date: February 2nd, 2024

Site:

Project: Nuclear Medicine Room G213 New SPECT Camera – Siemens Symbia EVO

Dear

The proposed shielding plans for Nuclear Medicine Rooms G212 and G213, dated August 2013, were reviewed and the lead specifications outlined in the plans will provide sufficient radiation protection for the currently proposed project: Siemens Symbia EVO SPECT system to be installed in Room G213.

Please note that both rooms, G212 and G213, have already been constructed with the lead shielding installed within the walls, doors, windows, etc.

Also note that at the time of the SPECT equipment installation a radiation safety survey will be performed to ensure that the lead shielding within the walls has been installed properly and will provide sufficient radiation protection to adjacent occupied areas.

If you have any further questions regarding this matter, please contact me at



Enclosed:

 Radiation Protection Shielding Design -Replacement Wing – Room G212 and G213.