

Kevin Higgins: Training Description	Date	Time
Equipment Calibrations (Normal QC, Efficiency and MDA)		
1. Equipment in Nuclear Med Department	02/11/2020	1 hour
a. uptake probe – (operations and bioassay)		
b. well counter – (operations)		
2. Equipment in counting lab	02/11/2020	1 hour
a. Uptake Probe – (operations and bioassay)		
b. Well counter – (operations)		
c. Liquid Scintillator – (discussion only; only used for C-14 in nuclear medicine)		
3. Survey Meter calibrations	3/13/2020	0.5 Hour
a. March		
Surveys		
1. Survey of Nuclear Medicine and Labs	03/04/2020	2.5 hours
a. Wipe tests		
b. Contamination monitoring		
c. review area monitor dosimetry reports		
	05/17/2019	1 hour
	08/13/2019	1 hour
	11/19/2019	1 hour
	02/18/2020	1 hour
2. Survey of RGD area		
a. Survey of proposed MSI room 1	05/29/2019	3 hours
b. Upcoming remodel of MSI room 3	01/31/2020	2.5 hours
c. Scatter measurements	02/19/2020	0.5 hours
Sources	03/13/2020	1 hour
1. Leak testing		
2. Inventory		
Personnel Monitoring		
1. Bioassay (reg guide 8.20) (GL-4)	02/19/2020	1 hour
a. Review the newly developed bioassay procedure on the NM uptake probe for I-131 bioassay. H-3 bioassay was discussed.	04/22/2020	1 hour
b. Performed baseline bioassay on Kevin	03/04/2020	1 hour
2. NRC monitoring regulations (ALARA levels also)	Multiple	5 hours
3. CT monitoring regulations (ALARA levels also)	Multiple	5 hours
4. Review declared pregnant worker discussion information with Andrés (NUREG guide 8.13)	Multiple	8 hours
HDR		
1. HDR safety training Elekta	04/18/2019	2 hours
2. HDR source exchange	07/18/2019	2 hours
3. HDR equipment and emergency training with Nucleron	01/14/2020	2 hours
4. HDR case review	02/12/2020	2 hours
Nuclear Med Therapies:		
1. Lu-177, Lutathera		
a. Lu-177 calibration with test source	05/06/2019	2 hours
b. Mock procedure	05/13/2019	2 hours

c. Mock procedure	09/03/2019	2 hours
d. Observed procedure from dose draw to patient release	09/04/2019	6 hours
e. Mock procedure	11/06/2019	2 hours
2. Y-90 Sir Spheres		
a. Training with Sirtex medical	07/31/2019	2 hours
b. Observed procedure	08/15/2019	6 hours
3. AZEDRA		
a. Attended presentation; no cases scheduled	02/25/2020	1.5 hours
b. Further research by Kevin	02/26/2020	4 hours
4. Observe I-131 Therapy,		
a. Ablation treatment (<33mCi)	03/17/2020	1 hours
b. Cancer therapy (>33 mCi) both inpatient and outpatient Procedures	03/17/2020	1 hours
c. Monitoring patients and documenting release conditions	01/30/2020	2 hours
5. Ra-223, Xiofigo		
a. Mock process	04/29/2020	2 hours
i. Dose determination with nuclear physician		
ii. Prescription range		
iii. Dedicated storage procedures		
iv. Specific dose calibrator ladle and sleeve		
v. Dose calibrator QC for Ra-223		
vi. Contamination control procedures		
High Activity sources (with Jim):		
1. T&R training	03/05/2020	1 hours
2. Security program	03/05/2020	1 hours
3. New Reviewing Official	06/03/2019	2 hours
4. Gamma Cell operations (GC1000A & GC3000)	03/13/2020 &	1 hours
a. Access & use	04/29/2020	5 hours
b. Material control & accountability		
c. License conditions and 10 CFR regulations		
d. Surveys & leak tests		
e. Recordkeeping		
f. Reporting (sources & theft, loss, incidents, or Exposures)		
Radiation Detection Equipment:	4	01/29/20
Well counter, dose calibrator, uptake probe		
DOT Training (with Jim)	03/10/2020	1.5 hours
Waste Management Program		
1. Dumpster waste survey	02/28/2019	0.5 hour
2. RMW waste	03/02/2020	0.5 hour
Emergency Response	03/27/2020	1 hour
Decommissioning Plan (with Jim)	1/13/2020	0.5 hour
NRC Inspections	03/27/2020	1 hour

NRC Reporting <ol style="list-style-type: none"> 1. Medical event 2. Occupational exposure exceeding the limits 3. Dose to embryo/fetus 4. Leaking source 	Multiple	8 hours
Observe and Monitor Clinical Procedures <ol style="list-style-type: none"> 1. Fluoroscopy 2. Radiographic 3. Nuclear medicine scan 4. HDR treatment 	Multiple 4/2019 to present	1 hour 1 hour 1 hour 6 hours
Basic Program Overview: organizational chart, employees, reporting, RSC, review of 2018 audit, training program, immediate & long-term needs	Multiple	50 hours
Program Oversight: toured departments, inventory (equipment, meters, sources), RAM & RGD locations, radiation safety training	Multiple	100 hours
Regulations: 10 CFR 19, 10 CFR 20, 10 CFR 35, CT DEEP 19-24 & 19-25d-1	Multiple	75 hours
Fluoroscopy Patient Dose: JC standards, radiation sentinel events, procedure thresholds, peak skin or fetal dose estimates	Multiple	50 hours