



**Ascension
St. John Hospital**

February 28, 2022

NRC –
Attn: Frank Tran

RE: Amending license for disposal of source – License #21-03210-01, Mail Control No. 629990

Our facility – St. John Hospital, 22101 Moross Rd., Detroit, MI #21-03210-01 - We have disposed of our Item H Cesium-137 Sealed source JL shepherd Model 6810; ORNL, Model A-0096 715Curies, for use in JL Shepherd Model 143-45 self-shielded irradiator device for irradiation of blood or blood products. This is the leak test for the unit. I do not readily have our docket # available, if you believe in the future I will have to refer to in our communications, I will find it.

If you have any questions, please feel free to contact me at email laura.smith5@ascension.org

Sincerely,

Laura T. Speer-Smith, MS
Radiation Safety Officer

SEALED SOURCE LEAK TEST

| NUCLIDE | TYPE | ACTIVITY | CALIBRATION DATE | LOCATION | M/N | S/N |
|---------|------------|----------|---------------------|------------|--------|------|
| Cs-137 | Irradiator | 715Ci | 9/10/2004 | Blood Bank | 143-45 | 2013 |

Date Tested: December 7, 2021

The sources listed above were leak tested and were found to have less than 0.005 μCi removable contaminations. The following are the Minimum Detectable Activity (MDA) a three-minute assay. The leak test was done using a Biodex Atomlab 950 multichannel analyzer and well counter.

| Nuclide | MDA | Background |
|---------|-----------------------|------------|
| Cs-137 | 1.1E-4 μCi | 75 cpm |
| Co-57 | 1.5E-5 μCi | 47 cpm |
| Ba-133 | 7.9E-5 μCi | 174 cpm |

Analyzed by: LT Speer Smith December 7, 2021
Date

RADIATION SAFETY OFFICER: 