NM Equipment Evaluation Summary

System: ____________________________ Report Date: __________
Address: ____________________________
System NMAP# - Unit #: ____________________________ Survey Date: __________
System Manufacturer: ____________________________ Model: ____________________________
Medical Physicist: ____________________________ Physicist Signature: ____________________________

Equipment Evaluation Tests

1. Intrinsic uniformity
2. System Uniformity with all commonly used collimators
3. Intrinsic or System Spatial Resolution
3. System Sensitivity (count rate/unit activity)
4. Relative Sensitivity
4. Energy Resolution
5. Count Rate Parameters
4. Image Uniformity
5. Monitor/Formatter Evaluation
6. System Interlocks
9. Monitor Evaluation
10. Overall System Performance for SPECT Systems
   a. Uniformity
   b. Resolution
   Contrast
10. System interlocks

Evaluation of Technologist QC Program
1. Daily Uniformity Check
2. Daily CT check (SPECT/CT systems)
3. Weekly Bar Phantom
4. Semi-annual (quarterly preferred) SPECT ACR phantom
5. Uniformity Calibration
6. Center-of-Rotation/Head Alignment (SPECT Systems)
7. Dose Calibrator Tests
   a. Accuracy
   b. Linearity
   c. Constancy

Medical Physicist’s Recommendations for Quality Improvement and Comments on Testing Procedures

NM Equipment Checklist and QC Review