N-TR-G-00001

Savannah River NUCLEAR SOLUTIONS℠
FLUOR • NEWPORT NEWS NUCLEAR • HONEYWELL

FY22 CritView Status & Database Expansion

Scott Finfrock

NCSP Technical Program Review

February 21-23, 2023

Purpose of Presentation

Provide an update for progress and current status related to CritView digital handbook for FY22/FY23

- **FY22/FY23 budget summary**
- **Provide highlights for FY22**
- **CritView Overview**
- **Future Work (FY23)**

CritView Budget

- **FY22 SRS-IPD1 (CritView) received $10K**
  - ~$100 in carryover from prior years available 😎
  - Transferred $30K from other project carryover
  - Total of $40K for FY23 available
- **For FY22, due to other priorities, minimal was accomplished.**

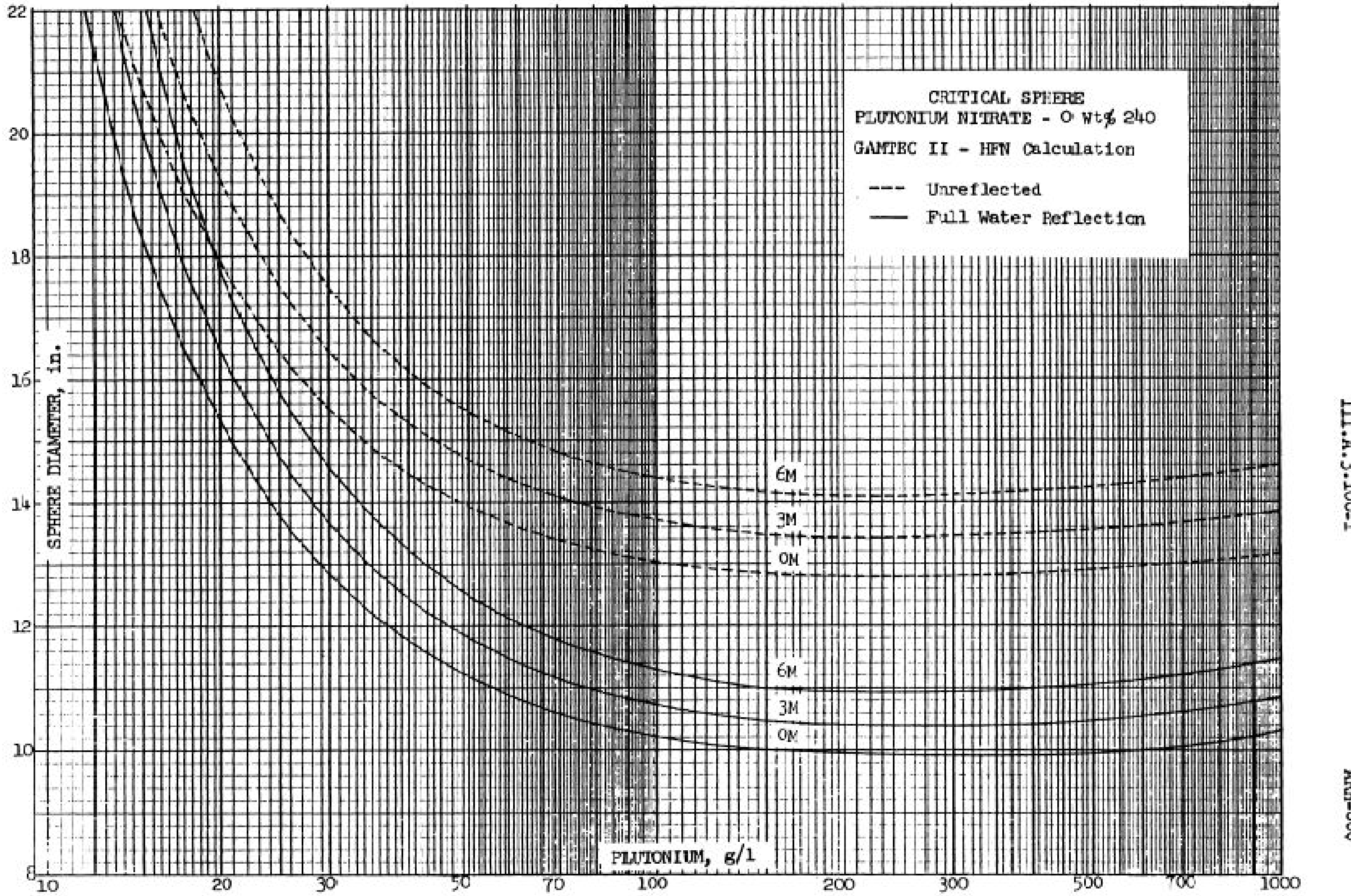
FY22 CritView Highlights

- **FY21 recap**
  - Two interns
  - Completed thousands of SCALE runs to replicate most ARH-600 curves
  - Digitized curves from LA-10860 to include in CritView
  - Drafted documents for each of the tasks
- **FY22**
  - Documents were completed, approved and issued.
    - *Approved for public release*
  - Approved FY22-FY23 scope for continued CritView development

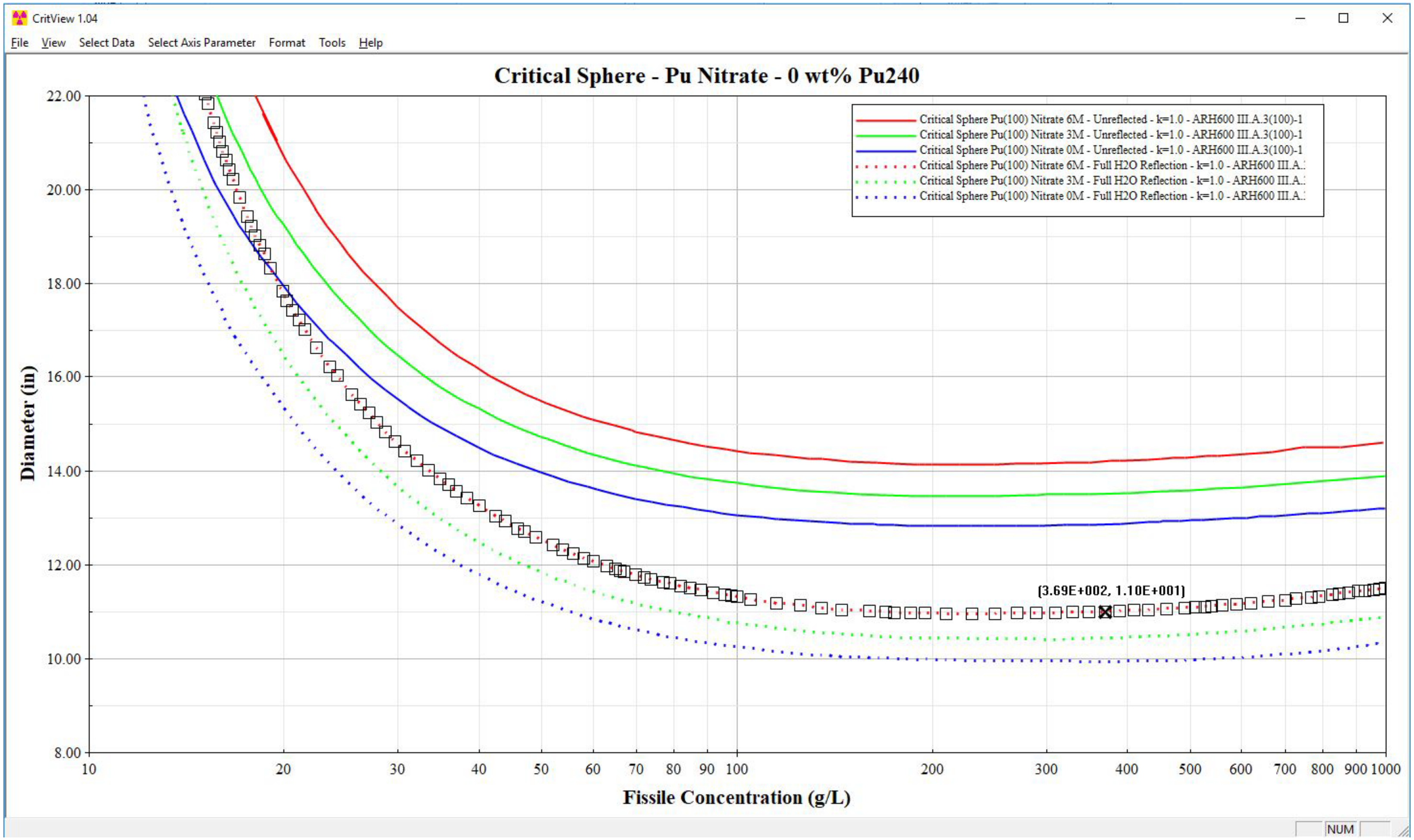
CritView Overview

- **Designed to be a digital equivalent to existing hardcopy handbooks**
- **Provides a versatile interface for ARH-600**
  - Data from other sources can be added as well
  - Allows users to customize the curve plots to fit their needs
- **Can make multiple handbooks and data sets available in one place**
- **Provides updated and well documented data (e.g., reproduces ARH-600 with MCNP)**

Example Graph from ARH-600



Example Screenshot from CritView v1.04



Future Work (FY23)

- **Revise CritView to better accommodate new data**
- **Incorporate new data into CritView database**
  - SCALE curves and LA-10860 data