



# NRC Materials Research for Aging Management

**Darrell Murdock**  
**Nuclear Regulatory Commission**

**PUBLIC MEETING ON DEVELOPMENT OF GUIDANCE DOCUMENTS TO SUPPORT  
LICENSE RENEWAL FOR 100 YEARS OF PLANT OPERATION**

**January 21, 2021**

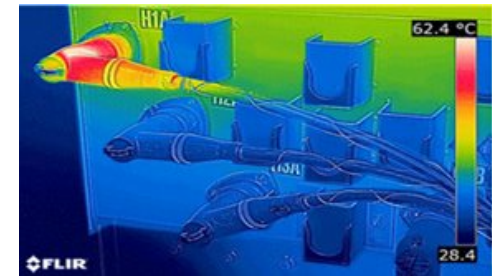
**NRC Headquarters Rockville, MD (Virtual meeting)**

# Cable Aging Confirmatory Research



- Overview

- **Objective:** Evaluate the effectiveness of commonly used cable condition monitoring methods
- **Motivation:** Determine which condition monitoring methods are capable of tracking the aging of the cables
- **Cooperation:** EPRI, DOE, AMS



- Status of Current Activities

- Cable samples' thermal and radiation aging was completed in November 2020
- Completion of condition monitoring testing for the final aging intervals is in progress
- Completion of the report that discusses the assessment of the condition monitoring methods with respect to the cable samples' concurrent thermal and radiation aging will be by September 2021
- Completion of the LOCA Testing and final report will be by December 2021