

U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

FCIX 2012

DECOMMISSIONING PLANNING

DG-4014 (REG GUIDE 4.22)

13 June 12

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Reactor Decommissioning Branch

ESSENCE OF DECOMMISSIONING PLANNING

- OCCURS DURING THE **OPERATIONAL PHASE**
- MONITOR AND SAMPLE TO DEFINE EXTENT OF CONTAMINATION
- ESTIMATE COST TO REMEDIATE AFFECTED AREA

MORE ESSENCE

- THEN EITHER:
 - REMEDIATE SOON TO LIMIT FINANCIAL ASSURANCE
 - INCREASE FINANCIAL ASSURANCE PER REGULATIONS TO REMEDIATE LATER

DECOMMISSIONING PLANNING RULE

- MINIMIZE INTRODUCING CONTAMINATION
- MONITOR SITE, INCLUDING SUBSURFACE
- KEEP IN DECOMMISSIONING RECORDS
- UPDATE FINANCIAL ASSURANCE
- EFFECTIVE **DECEMBER 17, 2012**

MINIMIZE CONTAMINATION

- ADDS §20.1406(c)
 - OPERATE TO MINIMIZE INTRODUCTION OF CONTAMINATION TO THE ENVIRONMENT
 - > PROCEDURES TO REDUCE LEAKS AND SPILLS
 - > SURVEILLANCE TO FIND THEM PROMPTLY
 - FACILITATE DECOMMISSIONING
 - > REDUCE WASTE GENERATION AS PRACTICAL
 - > DISPOSE EARLY WHEN PRACTICAL

MINIMIZE CONTAMINATION

- FACILITATE DECOMMISSIONING
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DPR SURVEYS AND RECORDS (1/2)

- MODIFIES §20.1501(a) SURVEYS
 - EXPLICITLY INCLUDES SUBSURFACE
 - DOES NOT CHANGE “NECESSARY [AND] REASONABLE” SURVEYS

DPR SURVEYS AND RECORDS (2/2)

- ADDS NEW §20.1501(b)
 - RECORD SIGNIFICANT CONTAMINATION IN RECORDS IMPORTANT TO DECOMMISSIONING
 - CONSIDER KEEPING MORE FOR HISTORIC SITE ASSESSMENT TO SUPPORT LICENSE TERMINATION

DPR GUIDANCE

- FINANCIAL: NUREG-1757 V. 3 R. 1
 - PLAN TO PAY FOR ACTUAL REMEDIATION
 - CHANGES TO REPORTING REQUIREMENTS AND TO FINANCIAL INSTRUMENTS
 - ISSUED FEBRUARY 2012

DPR GUIDANCE

- CONTAMINATION: DG-4014 (RG-4.22)
 - MINIMIZE NEW CONTAMINATION
 - CONDUCT SURVEYS OF SITE
 - RETAIN RECORDS OF SURVEYS

RG-4.22: CONDUCT SURVEYS

- SURVEYS PER § 20.1501(a)
 - SURFACE
 - ACCESSIBLE AREAS
 - NOT READILY ACCESSIBLE
 - SUBSURFACE IS EXPLICIT REQUIREMENT
 - NEAR TO REASONABLE POTENTIAL SOURCES
 - IN GW FLOW PATHS (DOWNSTREAM)

RG-4.22: KEEP RECORDS

- RECORDKEEPING PER § 20.1501(b)
 - RETAIN SURVEY RESULTS WITH “RECORDS IMPORTANT TO DECOMMISSIONING”
 - SIGNIFICANT RESIDUAL RADIOACTIVITY REQUIRES REMEDIATION AT TIME OF LICENSE TERMINATION TO MEET UNRESTRICTED RELEASE CONDITIONS
 - BASES FOR CHARACTERIZATION SURVEYS AT LICENSE TERMINATION

RG-4.22: FINANCES

- UPDATE FINANCIAL ASSURANCE
 - ESTIMATE ACTUAL COST TO REMEDIATE
 - ARRANGE FOR SUFFICIENT FUNDS
 - NON-REACTORS UPDATE DFP
 - TRIENNIAL OR
 - WITHIN ONE YEAR OF IDENTIFYING SIGNIFICANT RADIOACTIVITY
 - REACTORS PER 10 CFR 50
 - DETAILS IN NUREG-1757 V. 3 R. 1 & RG-1.159

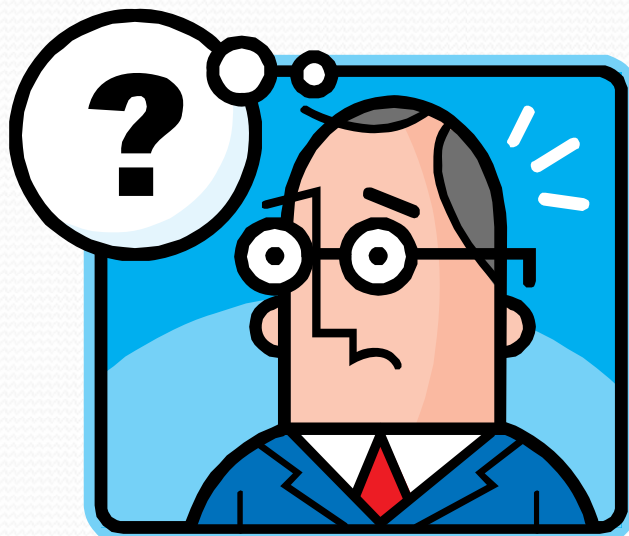
DPR GUIDE SCHEDULE

- DRAFT REGULATORY GUIDE DG-4014 (RG-4.22)
 - ISSUED FOR COMMENT 13 DEC 2011; CLOSED MAR 30
 - REVISED DRAFT PER COMMENTS
 - MORE INFORMATION TO DISTINGUISH LICENSE TYPES
 - MORE INFORMATION ON SAMPLING
 - **WILL BE REISSUED FOR COMMENT AND A PUBLIC MEETING AND “WEBINAR” ON JULY 12, 2012**

REFERENCES

- LICENSE TERMINATION RULE:
62 FR 39058, July 21, 1997
- DECOMMISSIONING PLANNING RULE:
76 FR 35512, June 17, 2011
- DRAFT REGULATORY GUIDE 4014:
76 FR 77431, DECEMBER 13, 2011
- NUREG-1757 VOL. 3 REV. 1: ML12048A683

QUESTIONS ??



NOT

THE END