

The logo for Energy Solutions features two curved lines, one light blue and one light green, arching over the text.

ENERGY*SOLUTIONS*



**2011 EFCOG/DOE
Electrical Safety
Fall Workshop
October 17 - 20, 2011
Radiation Protection
Sub Group
Industry Updates by
Mark Ledoux**



ICRP Publication 103

The 2007 Recommendations of the International Commission on Radiological Protection

- General support for updating numerical values and scientific base
- Little support to change annual dose limits
- Little support for using the term “constraint”
 - Many concerned that any numerical values in regulations will be a *de facto limit*
- New International Commission on Radiological Protection;
Recommendations on the Annual Dose Limit to the Lens of the Eye



ICRP Publication 103 Path Forward

- Policy paper for Commission consideration in 2011-2012
- Development of Technical Basis to support Commission decisions
- ANI understanding



Disposal of Depleted Uranium

- PA for the Clive Disposal Facility submitted in June 2011
- Estimated completion date – best estimate at least one year
- Current onsite inventory of SRS DU stored inside Storage building until resolution of PA



Draft NRC Branch Technical Position on Concentration Averaging and Encapsulation

- May effect disposal options for DOE



10 CFR 37

Physical Protection of Byproduct Material

- NRC is evaluating public comments on proposed rule to incorporate previous Order



Draft Policy Statement on Cesium-137 Chloride Sources

- For the near term the Commission considers that it is more appropriate to focus on continued enforcement of the U.S. security requirements and to mitigate risk through cooperative efforts and voluntary initiatives of industries that currently manufacture and use CsCl sources.
- For the long term, the draft Final Policy Statement states that NRC's mission does not include developmental research, and encourages further research efforts by manufacturers for technologies that could enhance security.



NRC Draft Safety Culture Policy

- NRC still working



Safety Culture at the Waste Treatment and Immobilization Plant

- Letter from Secretary Chu to Peter S. Winokur, Chairman, Defense Nuclear Safety Board
- Defense Nuclear Facilities Safety Board (Board) Recommendation 2011-1, *Safety Culture at the Waste Treatment and immobilization Plant*, issued on June 9, 2011. DOE views nuclear safety and assuring a robust safety culture as essential to the success of the Waste Treatment and Immobilization Plant (WTP) and all of our projects across the DOE complex.



DOE-STD-1095-2011, Department of Energy Laboratory Accreditation for External Dosimetry

- This standard provides updated technical criteria for performance testing for, and provides a requirement for onsite quality assurance assessments of, whole body and extremity dosimetry programs in use at DOE sites.



Secretary Chu Letter

- Letter dated September 11, 2011, “Secretarial review of Environmental Management (EM) Program and Projects”
- EM has been absorbed within NNSA



Environmental Safety and Health Working Group



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 Richard DeBusk, LBNL – Vice Chair
 James Morgan, SRNS – Secretary

Strategic Planning
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EnergySolutions TLD/OSL RFQ

- EnergySolutions dosimetry vendor (WB, extremity and environmental) for continental USA
- Landauer and Mirion (OSL vs. TLD)
- Radiation Safety professional consensus selected Mirion – customer service
- 51% annual savings (~\$41,000) with requisite quarterly readings (reduction in 3,000 dosimeters handled annually)



Regulation Revisions

- NRC 10 CFR 61, Licensing Requirements for Land Disposal of Radioactive Waste
- NRC Branch Technical Position (BTP) on Concentration Averaging and Encapsulation (CA BTP)
- EPA revisions to MARSSIM (Multi-Agency Radiation Survey and Site Investigation Manual)
- NRC residual radioactivity rule
- 49 CFR hazardous material transportation rule changes