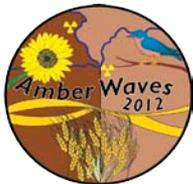




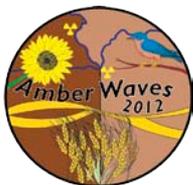
# Amber Waves 2012

January 23, 2013



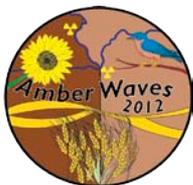
# Amber Waves

- **The goal of Amber Waves 2012 (AW12) was to foster interagency collaboration among federal, state, and local organizations with equities in radiological emergency response.**
- **AW12 was conceived as a Tier II full-scale exercise (FSE).**
- **During planning, a number of constraints emerged that made conduct of a full-scale exercise (FSE) unrealistic.**
- **The Exercise was re-scoped to involve a series of workshops and discussion based exercises.**



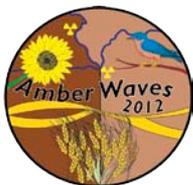
# Concept Evolution

- **During AW12 planning the Department of Energy became significantly involved in the Fukushima Dai'ichi Nuclear Power Plant accident in Japan.**
  - DOE decided to re-scope the full-scale exercise (FSE) concept due to the financial impact of the response and emergence of lessons learned that needed to be incorporated into Amber Waves.
- **A series of discussion-based exercises and a functional exercise (FE) capstone replaced the original FSE.**
  - Due varying to participation levels among the interagency, DOE eventually decided not to conduct the functional exercise.
  - Instead, the Food & Feed and FRMAC Transfer Workshops were added to the list of Amber Waves events.



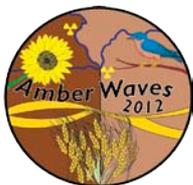
# Amber Waves Events

- **In total, there were seven exercise events including:**
  - **Technical Workshop – June 7-8, 2012**
  - **REAC/TS Training – June 9, 2012**
  - **Senior Leadership Seminar – July 17, 2012**
  - **Tabletop Exercise – July 18, 2012**
  - **Kansas Community Reception Center Exercise – September 25, 2012**
  - **Food and Feed Workshop – September 26, 2012**
  - **FRMAC Transfer Workshop – September 27, 2012**



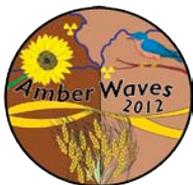
# New Concept Virtue

- **Amber Waves was ultimately successful because it provided an opportunity to address, in significant detail, functional areas and time-phases of a response that are rarely incorporated in full-scale exercises.**
  - **For instance, the Food & Feed Workshop marked the first time that FRMAC, federal organizations, state partners, local partners, and private industry exercised in a recovery timeframe and examined issues unique to agriculture in that period.**



# New Concept Constraint

- **The lack of functional play prevented the evaluation of actual interagency integration and information sharing.**
  - One of the original goals of AW12 was to generate a detailed concept for how the interagency will organize within the Incident Command System and Multi-Agency Coordination System.
  - Although this was discussed throughout the AW12 events, a detailed and comprehensive concept for integration did not emerge.



# Exercise Design Lesson Learned

- To avoid future complications, the sponsoring agency should coordinate with the FEMA region, propose fundamental exercise execution and participation requirements, and identify potential constraints prior to selecting a venue and format.

