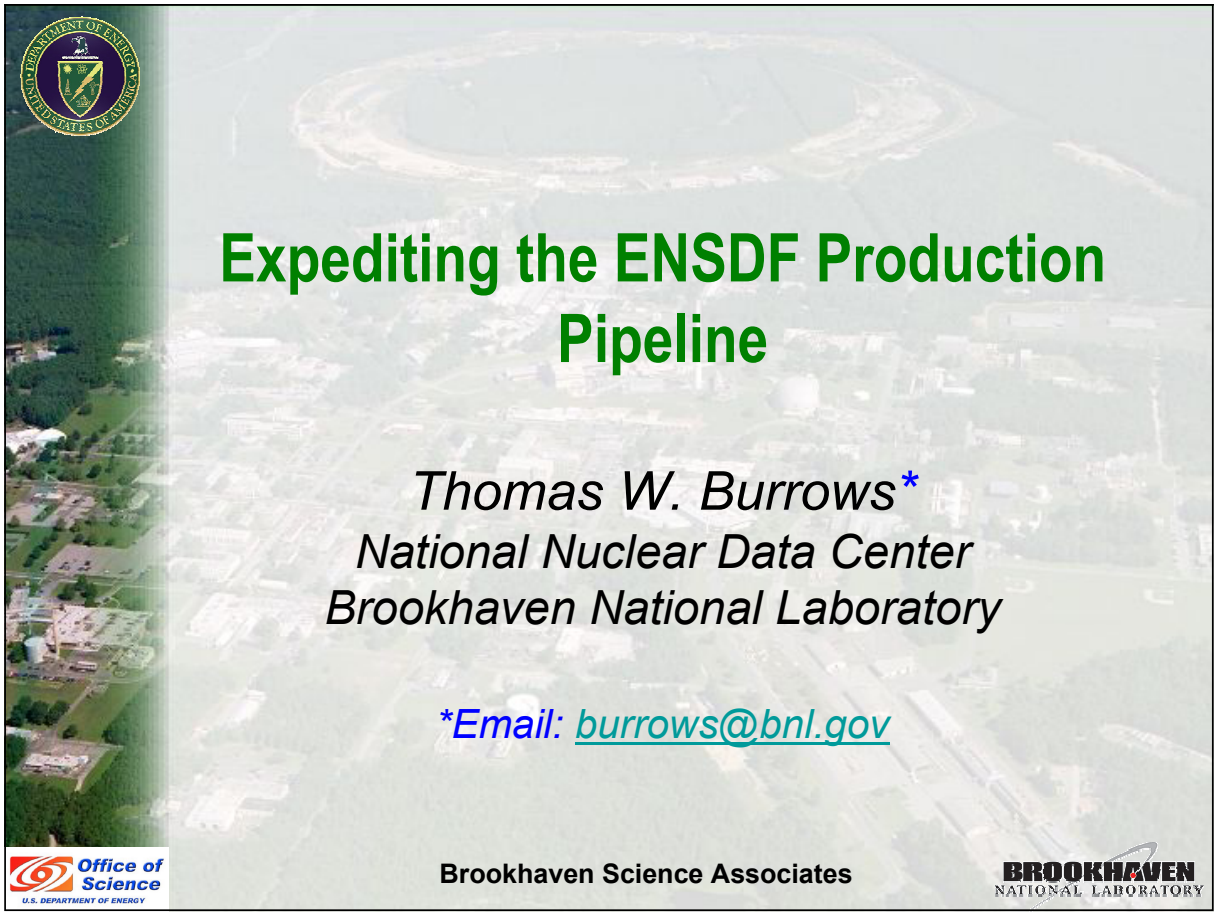

Expediting the ENSDF Production Pipeline

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BROOKHAVEN NATIONAL LABORATORY

Expediting the ENSDF Production Pipeline

- Background
  - Extensive use of Adobe Acrobat Commenting and Compare Documents Tools in collaborations with Mohini Gupta and Tibor Kibédi
  - Some use of Microsoft Word Track Changes and Compare Documents Tools in the above collaborations
  - Experience of some long delays due to mailing of hard copies (*e.g.*, one month in transit)

Expediting the ENSDF Production Pipeline

- Suggestion: Attempt to do everything electronically and by e-mail
  - Prereview:
    - To evaluator: PDF of manuscript, ENSDF file, and outputs of relevant checking codes
    - From evaluator: Revised version of ENSDF evaluation, marked up PDF, if necessary, and other comments either as part of the e-mail or an ASCII text file or Word document.
  - Review:
    - To reviewer: PDF of manuscript and the ENSDF file
    - From reviewer: Marked up PDF and an ASCII text file or Word document with general or more extensive comments.

Expediting the ENSDF Production Pipeline

  - Post-Review:
    - To evaluator: Reviewer's comments (PDF, text, and Word), latest version of ENSDF file, and output from the relevant checking codes
    - From evaluator: Response to review (PDF, text, and Word) and updated ENSDF file.
- Considerations:
  - File size: PDF compression ratio of NDS PostScript files – ≈70%. ZIP ratio of ENSDF files – ≈75%
  - Adobe Acrobat required to do commenting or print out with comments (Acrobat Reader will display the comments). Possible third-party software?
  - Weakest link: Reviewer?

Expediting the ENSDF Production Pipeline

TABLE II: Experimental E2 conversion coefficients deduced from lifetime and Coulomb excitation measurements.

Nuclide	Quantity		Value	References
$^{150}_{60}Nd_{90}$	130.21 *8* keV state			
	$T_{1/2}$ (nsec)	†	1.54 *7*	[1959Bi10]
			1.519 *24*	[1967Ku07]
			1.48 *4*	[1968Ri09]
			1.44 *7*	[1978Ya02]
		†	1.421 *+111-7*	[2004Zi02]
		†	1.501 *24*	**Adopted**
	B(E2)↑ (e^2b^2)		2.67 *10*	[1963Bj04]
			2.72 *6*	[1969KeZX]
			2.76 *8*	[1973FrZN]
			2.72 *4*	[1977Wo02]
			2.82 *4*	[1986Sc30]
			2.75 *4*	**Adopted**
	α_T	†	0.831 *41*	**Adopted**
$^{152}_{62}Sm_{90}$	121.7817 *3* keV state			

Note 07/14/2005
burrows 13:22:23
2.76 4. Modified from 2002Ra45