From a Chairman's Perspective

Brian Voss

TN Users Group Chairman

Reactor Services/DFS Program Owner –
Cooper Nuclear Station

Overview of Responsibilities

- Serve as a Point of Contact for all users to interface with Transnuclear
- Provide answers to questions
- Develop agenda and schedule for annual meeting
- Administrator of TNusers.org
- Provide candid feedback to Transnuclear
- Serve on task force groups for Used Fuel initiatives and feed key initiatives back to the group and provide feedback back to NEI

Benefits of the Users Group

- Provide data and operating experience to the industry and other users
- Quick response to events or operational issues
- Provide experience to the less experienced
- Quick hit benchmarks
- Access to procedures, design, and fabrication data
- Transfer Equipment Sharing
- Self Assessment and Peer Assists for campaigns and NRC Inspections
- NUPIC Audits

Vendor Benefits

- Vendor development
  - Inject industry experience
  - Help vendor understand policies and processes at the site
  - Nuturing of a healthy relationship between vendor and utility
  - Feedback from annual closed door meetings
- Fabrication
  - Project plan overviews
  - NUPIC audits and feedback
  - Development of QC processes
- Vendor Response
  - Duty response and PM involvement
  - OE sharing – Tech Bulletins, Monthly Newsletter, Web based

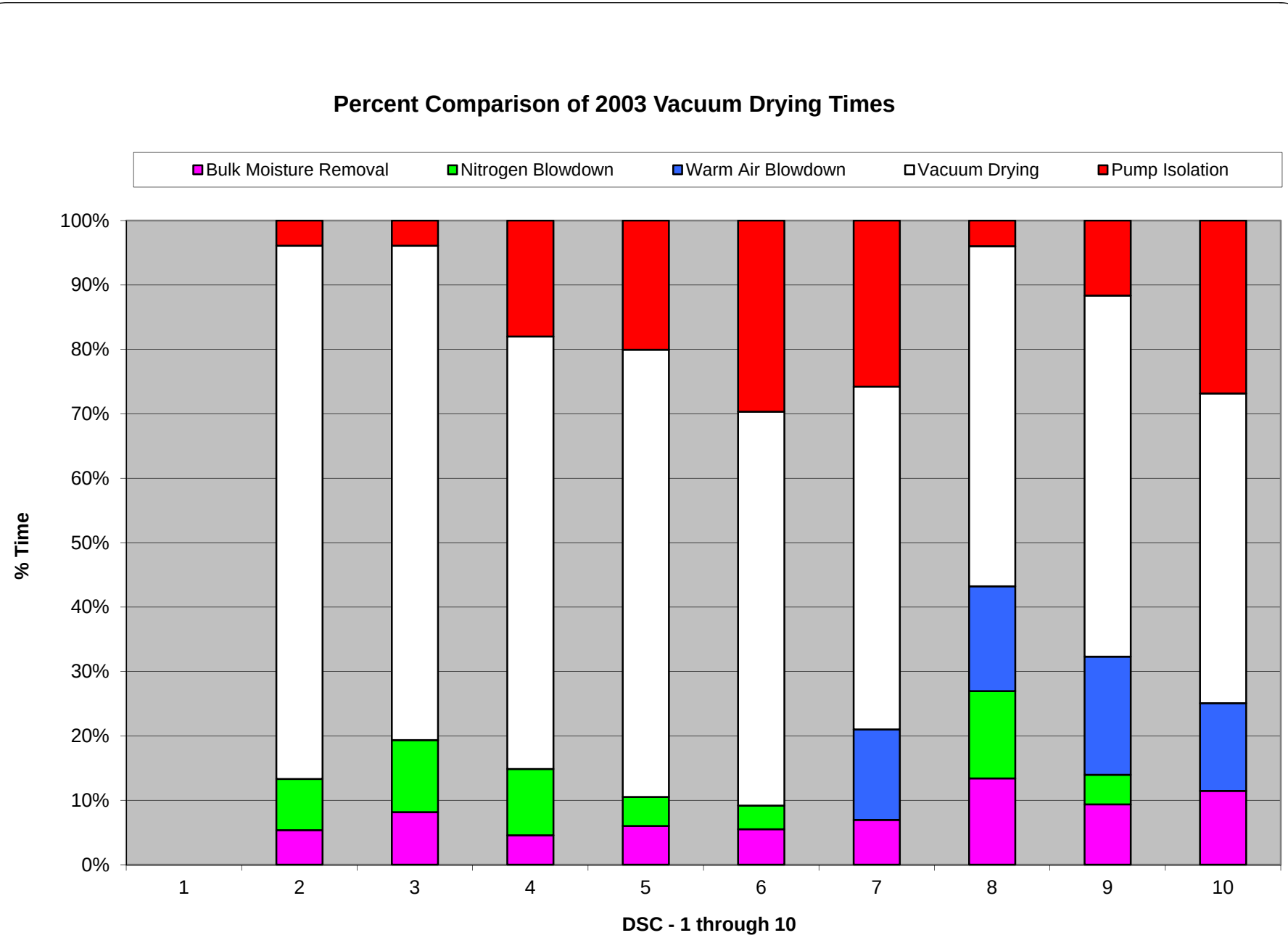
Products of the Group

- TNUG dose survey
- Vacuum Drying Times
- Loading history (highest heat load for given systems)
- Loading schedules to aid TN in scheduling equipment and aid utilities with aligning benchmarks
- Response to industry events and corrective actions
- TNusers.org
- TN Tech Bulletin
- Transfer Equipment Maintenance Program
- Annual Plant Status Reports

OE Internalized

- Dose reductions techniques based on TNUG dose surveys
- Schedule adjustments based on extended vacuum times
- Use of Poly Bottles for keep fill during loading
- Procedure revisions at several sites in response to Neutron Shield draining event
- Siphon Tube flow check as part of pre use inspection on DSC
- HSM surveillances in response th INEL OE
- Procedure revisions to loading operations based on Oconeed OE on damaged HSM
- Verifications during fabrications as a result of TN OE (Level 3 qualifications)

Plant	System	Average Exposure (person-mrem)	Lowest Exposure (person-REM)	Burnup (GWD/MTU)	Cooling Time (years)	Heat Load (kW)	Notes
Peach Bottom	TN-68	267	182		>10		Avg. of 60 loadings (2000-2012)
Pt. Beach	NUHOMS-32PT	180	94	18-45	10-35		Avg. of 9 loadings (2012)
St. Lucie	NUHOMS-32PTH	145	93	12-55	5.7 - 35	26.3	Avg. of 6 loadings (2013)
Nine Mile Point	NUHOMS-61BT	229		35		7.4 kW	Gamma, only; based on first loading campaign of 6 loadings (2012)
Dominion	NUHOMS-32PTH (Surry, N. Anna); NUHOMS-32PT (Millstone 2, Kewaunee)	100-150	<100			30 kW (S, NA) 15 kW (M, K)	typical loading
North Anna	NUHOMS-32PTH	195	76	47	11		Avg. of 15 loadings; exposures do not include transfer and placement into storage (74.7 mrem, avg. for 15); total exposure for last 5 DSCs is 187 mrem
La Salle	Hi-Storm 100S, MPC-68	660	620	30-34	outer region-17-18 yr; inner region: 9 yr	12-14 kW	typical loading
Diablo Canyon	Hi-Storm 100SA, MPC-32	198	75	45.5 max		18 kW	Avg. of 23 loadings
Cooper	NUHOMS-61BTH, HSM-H	621	513	37.6 max		11 kW	Avg. of 8 loadings
SONGS	NUHOMS-24PT4	155	77			9-15 kW, typical	Avg. of 5 loadings (#43, #45-#49)
Robinson	NUHOMS-24PTH	266	163			27.4	Avg. of 14 loadings (1-8; 17-22)
Brunswick	NUHOMS-61BTH	944	686	45-51	5-8	19-29	Avg of 12 loadings
Oconee	NUHOMS-24PHB	557-1000	557	45	10-11	20	typical loading
McGuire	UMS-24	227	63			14.1	Avg. of 28 loadings
Catawba	UMS-24	140	61			15.5	Avg. of 24 loadings
Palo Verde	UMS-24	105-115	32			13-14	typical loading
Duane Arnold	NUHOMS-61BT	556	486	35	15	12.1	Average of 10 loadings in 2011 Lowest Exposure is in person-mrem


Percent Comparison of 2003 Vacuum Drying Times
Bulk Moisture Removal
Nitrogen Blowdown
Warm Air Blowdown
Vacuum Drying
Pump Isolation
% Time
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
1
2
3
4
5
6
7
8
9
10
DSC - 1 through 10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