



DELIVERING THE
NUCLEAR PROMISE

nuclear matters: my work • my plant • my industry



Design Oversight Working Group (DOWG) Status Update

Ashley Taylor
TVA

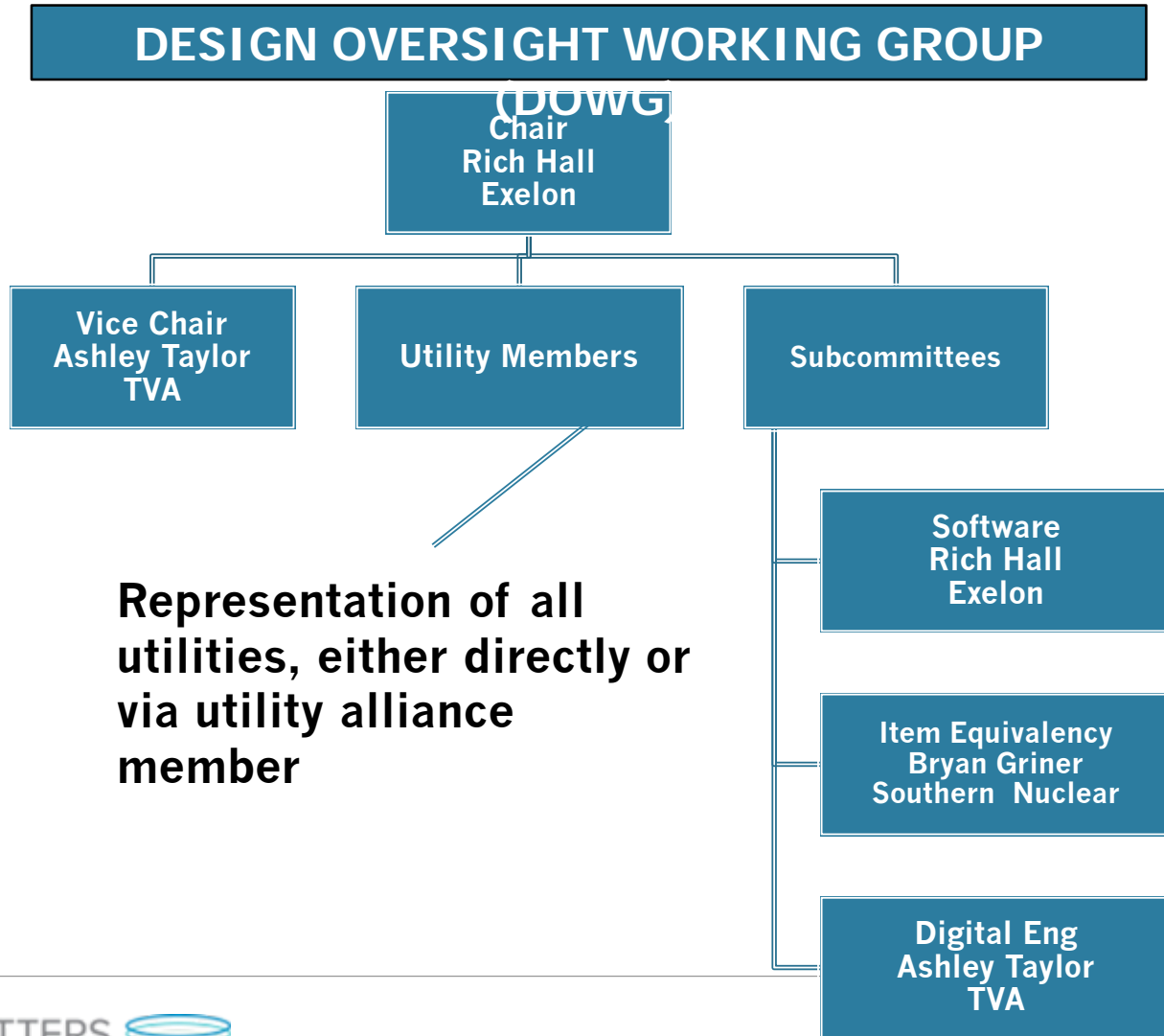
DOWG Background

- Design Oversight Working Group (DOWG) was originally formed in 2017 out of the Nuclear Promise Standard Design Process (SDP) initiative, ENG-003
- Provides a permanent industry organizational structure to maintain the SDP and its related procedures:
 - To review and consider feedback/changes to the process
 - To review, approve and coordinate revisions to the industry procedures
 - To review, approve and coordinate changes to the industry software

DOWG Charter - VISION and MISSION

- VISION: To achieve high levels of plant safety, reliability, and equipment performance through implementation of an effective and efficient design change process
- MISSION: To provide governance of the SDP and related procedures and to take action to improve the design change process throughout the nuclear power industry
 - Identifying best industry practices
 - Developing execution strategies

WORKING GROUP STRUCTURE (cont'd)



WORKING GROUP STRUCTURE (cont'd)

DESIGN OVERSIGHT WORKING GROUP (DOWG)

Allan Hartwig
APS

Andy Barth
Scana

Andy Mihalik
Entergy

Ashley Taylor
TVA

Colin Keller
First Energy

Denise Brandon
**Energy-
Northwest**

James Boyer
PSEG

**Mark
Grantham**
Duke

**Mohammad
Molaei**
Xcel

Pete Carlone
MPR

Rich Hall
Exelon

Scott Forman
NextEra

Sophie Gutner
Dominion

Steve Geier
NEI

**Sudesh
Gambhir**
INPO

Tim Long
Southern

Current DOWG Activities

Activity	Start / Finish	Comments
SDP Software	Complete	
SDP Procedure (Rev. 1)	Complete	
Standardized Item Equivalency Process (SIEP), NISP-EN-02	Complete	
Standardized Digital Engineering Process, NISP-EN-04	Complete	
Standardized Industry Metrics	Complete	No longer being pursued as industry effort
Common Design Packages for Distributed Antenna System & Wireless Vibration Monitoring Systems	Complete	EPRI has issued report with common design pkgs
SDP Procedure (Rev. 2)	Imminent	Adds more ties to NISP-EN-04
What's Next???	???	???

SDP Procedure (Rev. 1 & 2)

- Incorporate industry feedback on SDP process (~100 comments received to date)
 - Add DAR Tier 1 topic for Nuclear Fuels/Reactor Eng, add or update various Tier 2 questions
 - Various procedure and form enhancements / clarifications
- Incorporated changes due to:
 - Software
 - Standard Item Equivalency Process
 - Standard Digital Engineering Process (further changes in Rev. 2)

Standard Item Equivalency Process (SIEP)

- Objective
 - Provide a standard process to perform item equivalency evaluations
- Deliverables
 - Nuclear industry Standard Process NISP-EN-02, Standard Item Equivalency Process which leverages SDP where appropriate
 - Standard process that enables sharing of information between utilities and suppliers
 - Standard qualifications and training for item equivalency evaluations
- Optional to implement, many are anyway, EO 18-EG-01 R0

Standard Digital Engineering Process

- Objective
 - A standard process for the design and implementation of digital modifications founded on the EPRI Digital Design Guide (TR 3002002989)
- Deliverables
 - Nuclear industry Standard Process NISP-EN-04, Standard Digital Engineering Process, which leverages the Standard Design Process
 - Standard digital modification content and deliverables
 - Standard industry training and qualification
- Implementation by April 2021, EB 17-06 R2

DOWG Nuclear Community Website

- INPO NANTEL hosted site:
https://community.nantel.org/working_groups/design_oversight_working_group_dowg/
 - Need to register
 - Location for related materials
 - Community forum for questions
 - Available to US nuclear utility representatives and vendors that are members of the Supplier Participant Advisory Committee (SPAC)
 - Over 900 members



▼ DOWG Files

DOWG Charter (Final)

▼ DOWG Procedures

▼ Latest Revisions

DAR, Rev 11/12/18

IP-ENG-001 & Forms,
R1

NISP-EN-02 -
Standard Item
Equivalency Process,
R0

NISP-EN-04 -
Standard Digital
Engineering Process,
R1

Resource Manual Rev
11/12/18

SIEP Qual/Mentor
Guide and Key, R0

Standard Design
Process
Qual/Mentoring
Guide, R0

> Older Revisions

Efficiency Bulletin and
Efficiency Opportunity

> General Communications

> INPO Reference Documents

Indicators for CM

> Pilots

> Software

> Training & Change

Latest Revisions

Latest Revisions

[Edit](#) [Like](#) [☆☆☆☆☆](#) [Share](#) [More](#)

Related

Older Revisions

Older Revisions

Revised Resource Manual Posted

Hi everyone, My name's Dan Ludwig, and I've been working with the DOWG steering committee to get the Resource Manual revised and issued. The revision was approved on 11/9/16, and I just posted it on the DOWG nuclear community page. Highlights of the...

FCR vs. Revision

Southern Nuclear would like your feedback on the following questions associated with performing Revisions in lieu of FCRs under the SDP process. After the modification is approved (EC in planning or implementation), do you use FCRs exclusively or...



QUESTIONS?