

June 23, 2010

MEMORANDUM TO: Tim Frye, Branch Chief  
Construction Assessment, Enforcement, and Allegations Branch  
Division of Construction Inspection  
& Operational Programs  
Office of New Reactors

FROM: Kevin Mattern, Physical Scientist /RA/  
Construction Assessment, Enforcement, and Allegations Branch  
Division of Construction Inspection  
& Operational Programs  
Office of New Reactors

PARTICIPANTS: Public, Industry, and NRC Staff

SUBJECT: SUMMARY OF JUNE 16, 2010, NRC CONSTRUCTION REACTOR  
OVERSIGHT PROCESS (cROP) CATEGORY 2 PUBLIC MEETING  
WITH THE INDUSTRY AND THE GENERAL PUBLIC

On June 16, 2010, the NRC Construction Reactor Oversight Process (cROP) Working Group (WG) met with the cROP Task Force led by the Nuclear Energy Institute (NEI) and interested members of the public at the Legacy Hotel in Rockville, MD (Agencywide Documents Access and Management System (ADAMS) Accession Number ML101410222). The purpose of the meeting was to continue discussions regarding the oversight and assessment of new commercial reactor construction. The NRC cROP WG is led by Tom Kozak, Office of New Reactors (NRO), and the cROP Task Force is led by Tom Houghton, NEI.

The meeting began with remarks by Tom Kozak who described the cROP working group's activities to date along with their planned future interactions with both internal and external stakeholders. He also reminded the audience that NRO will issue a Federal Register Notice on or before July 1, 2010, requesting public comment on the cROP. The working group continued discussions regarding the Significance Determination Process (SDP) which is being developed to determine the significance of findings identified during implementation of the construction inspection program.

Mr. Kozak described the latest draft revision of the Significance Determination Process (SDP) flow chart for construction (ML101720288) developed by the NRC Working Group. The SDP flow chart describes paths to escalate findings from green to white, yellow, or red, depending on the answers to specific questions. The latest revision focuses on targeted Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) which is aligned with the construction inspection program.

CONTACT: Kevin Mattern, NRO/DCIP/CAEB  
301-415-6622

Tom also discussed a revised cROP risk matrix (ML101690123). The risk matrix is an alternate approach to determine the significance of construction findings, which aims to be more risk informed and objective. It uses a matrix approach with "degree of non-conformance" on the y-axis and "risk importance" on the x-axis. Discussions centered on several different approaches to incorporate risk and quality of construction in order to transition between rows and columns within the matrix. Don Dube, NRO, discussed the potential strengths and weaknesses of using Fussell-Vesely and Risk Achievement Worth to risk inform the process (ML101680654; ML101680659; ML101680644).

Tom Houghton, NEI, discussed, a revised SDP flow chart (ML101680635) and risk matrix (ML101690127) developed by the NEI cROP Task Force. The NRC and NEI flow charts similarly highlighted ITAAC, as well as recurring significant conditions adverse to quality (SCAQ) in order to address past construction lessons learned regarding quality assurance (QA). An example of what a licensee might use to define a SCAQ was discussed (ML101620454) to enhance the public's understanding of the term and its usage. Both the NRC and NEI risk matrices were principally aligned with only minor differences in terminology. The cROP Working Group plans to evaluate the varied SDP proposals and will continue discussions regarding SDP development in future public meetings.

Finally, Mr. Kozak presented the working group's preliminary results (ML101690116) using the current draft SDP risk matrix to process a prior escalated enforcement case at Wolf Creek (ML101620476) as an input. He also described four other enforcement cases that will be used in to test the draft SDP in future meetings (ML101620490; ML101620507, ML101620519; ML101620524). The NRC and NEI working groups will separately apply both SDP approaches to the prior escalated enforcement cases and incorporate the results into the SDP development process.

A list of meeting attendees is attached. The cROP Working Group will discuss its progress and continue developmental discussions at the next Category 2 public meeting which will be held on July 14, 2010 from 1:00 p.m. to 4:00 p.m. in Rockville, MD. Additionally, the cROP will be discussed at the next Construction Inspection Program (CIP) Category 3 public meeting scheduled for July 1, 2010 at NRC Headquarters (TWFN Auditorium) in Rockville, MD

Members of the public were in attendance and Public Meeting Feedback forms were distributed with none returned or submitted according to standard protocols. Please direct any inquiries to me at 301-415-6622, or Kevin.Mattern@nrc.gov.

Enclosures:

As stated

cc w/encl: See next page

axis and "risk importance" on the x-axis. Discussions centered on several different approaches to incorporate risk and quality of construction in order to transition between rows and columns within the matrix. Don Dube, NRO, discussed the potential strengths and weaknesses of using Fussell-Vesely and Risk Achievement Worth to risk inform the process (ML101680654; ML101680659; ML101680644).

Tom Houghton, NEI, discussed, a revised SDP flow chart (ML101680635) and risk matrix (ML101690127) developed by the NEI cROP Task Force. The NRC and NEI flow charts similarly highlighted ITAAC, as well as recurring significant conditions adverse to quality (SCAQ) in order to address past construction lessons learned regarding quality assurance (QA). An example of what a licensee might use to define a SCAQ was discussed (ML101620454) to enhance the public's understanding of the term and its usage. Both the NRC and NEI risk matrices were principally aligned with only minor differences in terminology. The cROP Working Group plans to evaluate the varied SDP proposals and will continue discussions regarding SDP development in future public meetings.

Finally, Mr. Kozak presented the working group's preliminary results (ML101690116) using the current draft SDP risk matrix to process a prior escalated enforcement case at Wolf Creek (ML101620476) as an input. He also described four other enforcement cases that will be used in to test the draft SDP in future meetings (ML101620490; ML101620507, ML101620519; ML101620524). The NRC and NEI working groups will separately apply both SDP approaches to the prior escalated enforcement cases and incorporate the results into the SDP development process.

A list of meeting attendees is attached. The cROP Working Group will discuss its progress and continue developmental discussions at the next Category 2 public meeting which will be held on July 14, 2010 from 1:00 p.m. to 4:00 p.m. in Rockville, MD. Additionally, the cROP will be discussed at the next Construction Inspection Program (CIP) Category 3 public meeting scheduled for July 1, 2010 at NRC Headquarters (TWFN Auditorium) in Rockville, MD

Members of the public were in attendance and Public Meeting Feedback forms were distributed with none returned or submitted according to standard protocols. Please direct any inquiries to me at 301-415-6622, or Kevin.Mattern@nrc.gov.

**Enclosures:**

As stated

cc w/encl: See next page

**DISTRIBUTION:**

PUBLIC

CCIB r/f  
RidsNroDcipCcib  
RidsNroDcipCtsb  
RidsNsirDprDdep  
Jim Beardsley  
Jose Jimenez  
George Gardner  
Bob Lukes  
Scott Sullivan

RidsNroDcip  
RidsRgn2MailCenter  
RidsOpaMail  
Tim Frye  
Kevin Mattern  
Terrence Barry  
Roger Lanksbury  
Kevin Roche  
Ron Frahm

RidsOgcMailCenter  
RidsAcrsAcnwMailCenter  
Tom Kozak  
Glenn Meyer  
Ron Schmitt  
Tom Bilik  
Bob Latta  
Don Dube

ADAMS Accession Number: ML101740126

NRC-001

OFFICE	NRO/DCIP/CAEB	NRO/DCIP/CAEB:BC
NAME	K. Mattern	T. Frye
DATE	06/23/10	06/23/10

OFFICIAL RECORD COPY

**Attendance List**  
**Category 2 Public Meeting (cROP)**  
**Legacy Hotel**  
**June 16, 2010**

**Attendance List**

Name	Organization
Beardsley, Jim	NRC
Bell, Russ	NEI
Burdick, Stephen	Morgan Lewis
Dube, Don	NRC
Frahm, Ronald	NRC
Frye, Tim	NRC
Gardner, George	NRC
Hastie, David	Shaw Group
Houghton, Tom	NEI
Karlovich, Nick	NRC
Kerr, Chris	Exelon
Kinard, James	Areva
Kozak, Tom	NRC
Lanksbury, Roger	NRC
Lukes, Bob	NRC
Mattern, Kevin	NRC
Meyer, Glenn	NRC
Ray, Thom	Westinghouse
Rice, April	SCE&G
Robillard, Dave	PSEG Nuclear LLC
Schlaseman, Caroline	MPR/TANE
Schmitt, Ron	NRC
Sinks, Donna	NRC
Taylor, Larry	Progress Energy
Waites, Brandon	Southern Company
Uchiyama, Junichi	Mitsubishi

Construction Inspection Program Mailing List

(Revised 6/15/2010)

cc:

Mr. Edward L. Quinn  
Longenecker and Associates  
Utility Operations Division  
23292 Pompeii Drive  
Dana Point, CA 92629

Mr. Lionel Batty  
Nuclear Business Team  
Graftech  
12300 Snow Road  
Parma, OH 44130

Ms. Michele Boyd  
Legislative Director  
Public Citizens Critical Mass Energy  
and Environmental Program  
215 Pennsylvania Avenue, SE  
Washington, DC 20003

Mr. Ian M. Grant  
Canadian Nuclear Safety Commission  
280 Slater Street, Station B  
P.O. Box 1046  
Ottawa, Ontario  
K1P 5S9

Mr. Eugene S. Grecheck  
Vice President  
Nuclear Support Services  
Dominion Energy, Inc.  
5000 Dominion Blvd.  
Glen Allen, VA 23060

Manager  
GT-MHR Safety & Licensing  
General Atomics Company  
PO Box 85608  
San Diego, CA 92186-5608

Mr. Carl E. Parry, President  
Utilities Service Alliance, Inc.  
9200 Indian Creek Parkway  
Suite 201  
Overland Park, KS 66210

Mr. Robert E. Sweeney  
IBEX ESI  
4641 Montgomery Avenue  
Suite 350  
Energy Program Bethesda, MD 20814

Mr. Gary Wright, Director  
Division of Nuclear Facility Safety  
Illinois Emergency Management Agency  
1035 Outer Park Drive  
Springfield, IL 62704

Mr. Paul Leventhal  
Nuclear Control Institute  
1000 Connecticut Avenue, NW  
Suite 410  
Washington, DC 20036

Mr. Brendan Hoffman  
Research Associate on Nuclear Energy  
Public Citizens Critical Mass Energy and  
Environmental Program  
215 Pennsylvania Avenue, SE  
Washington, DC 20003

Mr. Ed Wallace, General Manager  
Projects  
PBMR Pty LTD  
PO Box 9396  
Centurion 0046  
Republic of South Africa

Mr. Dobie McArthur  
Director, Washington Operations  
General Atomics  
1899 Pennsylvania Avenue, NW, Suite 300  
Washington, DC 20006

David L. Robillard  
Principal Nuclear Engineer  
PO Box 236, M/C NDC7  
Hancocks Bridge, NJ 08038

Ken Scarola  
Nuclear Automation Engineering, LLC  
3672 Pine Tree Ln.  
Murrysville, PA 15668  
Phone: 412-612-1192

## Construction Inspection Program Mailing List

### Email

APAGLIA@Scana.com (Al Paglia)  
APH@NEI.org (Adrian Heymer)  
awc@nei.org (Anne W. Cottingham)  
barry.bryant@dom.com (Barry Bryant)  
BrinkmCB@westinghouse.com (Charles Brinkman)  
Carellmd@westinghouse.com (Mario D. Carelli)  
carey.fleming@constellation.com (Carey Fleming)  
charles.bagnal@ge.com (Charles Bagnal)  
chris.maslak@ge.com (Chris Maslak)  
christian.martel@aerojoule.com (Christian Martel)  
cschlaseman@mpr.com (Caroline Schlaseman)  
CumminWE@Westinghouse.com (Edward W. Cummins)  
cwaltman@roe.com (C. Waltman)  
david.hastie@shawgrp.com (David Hastie)  
david.hinds@ge.com (David Hinds)  
david.lewis@pillsburylaw.com (David Lewis)  
debbie.johnson@fluor.com (Debbie Johnson)  
dwgwyn@moxproject.com (Dealis Gwyn)  
donald.woodlan@luminant.com (Donald Woodlan)  
draleigh@scientechn.com (Deann Raleigh)  
ecullington@earthlink.net (E. Cullington)  
eddie.grant@excelservices.com (Eddie Grant)  
erg-xl@cox.net (Eddie R. Grant)  
garry.miller@pgnmail.com (Garry D. Miller)  
gcesare@enercon.com (Guy Cesare)  
GovePA@BV.com (Patrick Gove)  
greshaja@westinghouse.com (James Gresham)  
gwcurtis2@tva.gov (G. W. Curtis)  
gzinke@entergy.com (George Alan Zinke)  
james.beard@gene.ge.com (James Beard)  
jason.parker@pillsburylaw.com (Jason Parker)  
jean-pierre.berger@edf.com (J Pierre Berger)  
jerald.head@ge.com (Jerald G. Head)  
jgutierrez@morganlewis.com (Jay M. Gutierrez)  
jim.riccio@wdc.greenpeace.org (James Riccio)  
jim@ncwarn.org (Jim Warren)  
JJNesrsta@cpsenergy.com (James J. Nesrsta)  
john.oddo@shawgrp.com (John Oddo)  
John.O'Neill@pillsburylaw.com (John O'Neill)  
Joseph\_Hegner@dom.com (Joseph Hegner)  
junichi\_uchiyama@mnes-us.com (Junichi Uchiyama)  
KSutton@morganlewis.com (Kathryn M. Sutton)  
kwaugh@impact-net.org (Kenneth O. Waugh)  
larry.taylor@pgnmail.com (Larry Taylor)  
Ichandler@morganlewis.com (Lawrence J. Chandler)  
Marc.Brooks@dhs.gov (Marc Brooks)  
maria.webb@pillsburylaw.com (Maria Webb)  
marilyn.kray@exeloncorp.com  
mark.beaumont@wsms.com (Mark Beaumont)

matias.travieso-diaz@pillsburylaw.com (Matias Travieso-Diaz)  
media@nei.org (Scott Peterson)  
mgiles@entergy.com (M. Giles)  
mike\_moran@fpl.com (Mike Moran)  
MSF@nei.org (Marvin Fertel)  
murawski@newsobserver.com (John Murawski)  
mwetterhahn@winston.com (M. Wetterhahn)  
nirsnet@nirs.org (Michael Mariotte)  
patriciaL.campbell@ge.com (Patricia L. Campbell)  
paul.gaukler@pillsburylaw.com (Paul Gaukler)  
Paul@beyondnuclear.org (Paul Gunter)  
pshastings@duke-energy.com (Peter Hastings)  
raytj@westinghouse.com (Thom Ray)  
rclary@scana.com (Ronald Clary)  
regservices@scientechnology.com (Reg Service)  
RJB@NEI.org (Russell Bell)  
RKTemple@cpsenergy.com (R.K. Temple)  
robert.kitchen@pgnmail.com (Robert H. Kitchen)  
sabinski@suddenlink.net (Steve A. Bennett)  
sandra.sloan@areva.com (Sandra Sloan)  
SauerB@BV.com (Robert C. Sauer)  
sfrantz@morganlewis.com (Stephen P. Frantz)  
skip.butler@ge.com (Skip Butler)  
stephan.moen@ge.com (Stephan Moen)  
steven.hucik@ge.com (Steven Hucik)  
Support@SaporitoEnergyConsultants.com (Thomas Saporito)  
trsmith@winston.com (Tyson Smith)  
Vanessa.quinn@dhs.gov (Vanessa Quinn)  
VictorB@bv.com (Bill Victor)  
Wanda.K.Marshall@dom.com (Wanda K. Marshall)  
whorin@winston.com (W. Horin)  
William.maher@fpl.com (William Maher)

(From DCIP list)

kenneth.ainger@exeloncorp.com (Kenneth Ainger)  
jaudis1@txu.com (John Audas)  
llbauman@aol.com  
darin.benyak@pseg.com (Darin Benyak)  
pmblanche@comcast.net (Paul Blanch)  
barry.bryant@dom.com (Barry Bryant)  
timothy.clouser@luminant.com (Timothy Clouser)  
david\_m\_collins@dom.com (David Collins)  
tdcosby@tva.gov (Thomas D. Cosby)  
mtc@nei.org (Mike Coyle)  
steven\_dolley@platts.com (Steven Dolley)  
cxe@nei.org (Chris Earls)  
jrfergus@duke-energy.com (J. Robert Ferguson)  
fitzpatrickwe@inpo.org (Bill Fitzpatrick)  
mark.flaherty@constellation.com (Mark Flaherty)  
frickwg@songs.sce.com (Willis Frick)  
equinox.consulting.llc@earthlink.net (Eric Fries)  
jfulto1@entergy.com (Jack Fulton)  
bpgarde@aol.com (Billie Garde)  
ecg@nei.org (Ellen Ginsberg)  
sbhaber@hpacorp.com (Sonja Haber)  
ghalnon@firstenergycorp.com (Greg Halnon)  
kah@nei.org (Tony Harris)  
dllaberdee@firstenergycorp.com (Dee Haskins)  
hlhay@bechel.com (Howard Lane Hay)  
hundrupa@gao.gov (Alyssa Hundrup)  
wrkanda@firstenergycorp.com (Bill Kanda)  
kolarick@gao.gov (Carol Kolarik)  
howard\_levin@msn.com (Howard Levin)  
lynchje@inpo.org (Jim Lynch)  
rich.mallory@eh.doe.gov (Rich Mallory)  
fcmarshburn@tva.gov (Fred Mashburn)  
brian.mccabe@pgnmail.com (Brian McCabe)  
wemookhoeke@stpegs.com (W.E. Mookhoeck)  
arp@nei.org (Tony Pietrangelo)  
caprice@firstenergycorp.com (Clark A. Price)  
drepka@winston.com (David Repka)  
elliot.rosenfeld@dep.state.nj.us (Elliot Rosenfeld)  
dashurberg@hpacorp.com (Debbie Shurberg)  
strikkersd@gao.gov (Dave Strikkers)  
jrsumpt@nppd.com (Jim Sumpter)  
marlene.taylor@exeloncorp.com (Marlene Taylor)  
satconsult@msn.com (Spyros Traiforos)  
ctyler@winston.com (Catherine Tyler)  
lfvaughn@duke-energy.com (Lisa Vaughn)  
dwoodla1@txu.com (D.R. Woodlan)  
zemenskir@dtenergy.com (Robert Zemenski)  
kenneth.wade@nuclear.energy.gov (Kenneth Chuck Wade)  
jim\_sommerville@mail.dnr.state.ga.us (Jim Sommerville)  
jenkinse@dhec.sc.gov (Susan Jenkins)

alice.rogers@dshs.state.tx.us (Alice Rogers)  
elyman@ucsusa.org (Ed Lyman)  
sgray@dnr.state.md.us (Susan Gray)  
GWilliams@coreworxinc.com (Glenn Williams)  
KenScarola@NuclearAutomation.com (Ken Scarola)