

# *Update on NACE Activities*

## *‘Nuclear Buried Piping’*

*Gabriel Ogundele, Chair (Kinectrics Inc., Canada)*

*Presentation at the NRC Public Meeting*  
*April 25, 2013*



# *History*

- TG 404 Initiated during Corrosion 2009
- Workshop -Corrosion 2010
- Meeting -Corrosion Technology Week 2010
- Symposium -Corrosion 2011
- Meeting -Corrosion 2011
- Meeting -Corrosion Technology Week 2011
- Forum-Corrosion 2012
- Meeting -Corrosion 2012
- Meeting -Corrosion Technology Week 2012
- Meeting -Corrosion 2013



# *Scope of TG 404*

**To produce a report on “State--of--the--Art Report of External Corrosion, Assessment, and Control of Buried Metallic and Reinforced Metallic Piping Systems in Nuclear Power Plants”**

- Disposition of some Ballot comments during Corrosion 2013
- Ballot closed March 21, 2013
- Summary of disposition is in progress



# *Path Forward*

- Develop Standard for Cathodic Protection for Buried Piping in Nuclear Power Plants
- Develop Standard for Coatings for Buried Piping in Nuclear Power
- Develop Standard for Materials Selection for Buried Piping in Nuclear Power Plants
- Develop Standard for NDE of Buried Piping in Nuclear Power Plants
- Review Training for Nuclear Buried Piping

**All new TGs will hold meetings and report on activities at STG 41 and at TEG 465X future**

# *Task Groups*

## **TG 404 –Nuclear Buried Piping**

- To produce a report on the corrosion “and protection” of buried pipes in nuclear power plants. This report will focus on evaluating corrosion management systems designed to protect buried pipes within nuclear power plant facilities from external corrosion.

## **TEG 465X–Nuclear Buried and Underground Piping**

- Liaise between the sponsoring committees and the specific task groups which will develop standards, training, inspection, and assessment of buried/underground piping in nuclear power plants while focusing on discussions for the application of cathodic protection and coating systems.

# *New Task Groups*

## **TG 467—Materials Selection for Buried Piping in the Nuclear Industry**

- To write a standard material requirements (MR) for materials selection for nuclear buried piping.

## **TG 471—Nondestructive Evaluation (NDE) Technologies to Evaluate Buried Pipe on Nuclear Sites**

- To write a standard on nondestructive evaluation (NDE) technologies to evaluate buried pipe at nuclear generation sites.



# *New Task Groups (continued)*

## **TEG 473X–Power Generation and Delivery Education Roadmap**

- To identify and qualify industry needs for training and certification of engineering, maintenance and construction personnel in system design, mitigation of degradation mechanisms and remediation of preexisting component degradation

## **TG 491–External Cathodic Protection for Nuclear Power Plant Piping Systems.**

- To write a standard practice that defines design, construction, maintenance, and operation of cathodic protection systems in nuclear power plants.



# *New Task Groups (continued)*

## **TG 481–Nuclear Power Plant Buried Pipe Coatings Condition Assessment**

- To develop a standard practice for characterization of buried pipe coating condition during direct (bellhole) examination.

## **TG 485–Identification of Existing Buried Pipe Coatings in Nuclear Power Plants.**

- To develop a standard practice for determining the type of an existing buried pipe coating system.





# *Future Meeting (TEG 465X)*

➤ Corrosion Technology Week, September 22-26, 2013, Vancouver, Canada

➤ Symposium Corrosion 2014

Title: Corrosion and Corrosion Control of Buried Piping in Nuclear Power Plants”.

*This symposium is seeking technical papers...On complex congested buried and underground piping systems in Nuclear Power Plants addressing coating, cathodic protection, and non-destructive examination issues considering copper grounding, bimetallic contacts, material selection, acceptance criteria. The deadline for doing so is **MAY 1, 2013**.*

Submit abstract on NACE Website

# *QUESTIONS*

