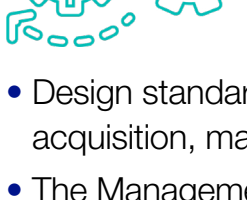




The Pipeline Safety Pulse

Our pipeline safety management system, Element 4: Operational controls

In every issue of *The Pulse*, we are examining an element of our National Grid Pipeline Safety Management System (PSMS), which is based on the American Petroleum Institute's RP 1173. The PSMS is a structured framework designed to enhance Gas Business processes and procedures to reduce and eliminate pipeline safety incidents by directing and controlling our activities.



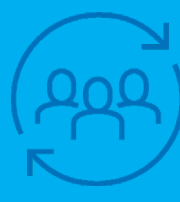
Operational controls (OC) ensure that National Grid pipeline systems, facilities and equipment are designed, constructed, operated and maintained according to established standards and specifications. OC procedures are developed with broad input and clearly written. OC examples include:

- Design standards and contractual requirements, which govern the procedures for material acquisition, manufacturing inspection and field construction oversight;
- The Management of Change (MOC) procedure, used to evaluate potential risks associated with changes that can affect pipeline safety;
- The procedure process, which includes development, review, approval, use and sustainment of procedures;
- The Safety Stop procedure, reinforced by Management, which establishes that any employee or contractor is responsible to stop work if they believe a procedure or work action will lead to an unsafe condition;
- QA/QC processes, to assure that work is executed according to policies and procedures.

The **key expectations** described in Element 4 (below) help assure that operational controls are developed and followed as required.

- Employees and contractors follow procedures, except when following the procedure may lead to unsafe conditions. A job brief is required before field work begins and when conditions change.
- Safe Operating Limits are established and adhered to.
- Procedures include considerations for operating limits, higher risk steps, human factors and abnormal operations.
- Employees and contractors follow the Gas Control System Operating Procedure approval process.
- Programs to maintain system integrity – including leak surveys, corrosion management, damage prevention and inline inspection – are in place.
- Contract bid documents and specifications:
 - Set clear expectations for contractor performance
 - Define accountabilities and responsibilities for Contractor Management
- Asset design, start up, operations and Management of Change address risk and competency.
- A contractor performance verification process is used to assure construction quality and adherence to standards.
- Regulatory inspection and maintenance activities are completed as required, and their results are used to evaluate system condition and safety performance.
- An MOC process is used to address potential risks associated with changes in technology, equipment, procedures and the organization. The MOC requires that stakeholders evaluate and approve proposed changes.

Continuous improvement



Incident Analysis and Corrective Action Team Update

The Incident Analysis and Corrective Action (IACA) team works to reduce the number of repeat incidents associated with API

Element 4: Operational controls. Over the last year, the root cause of 68 percent of pipeline safety incidents was directly related to standards, policies and procedures.

The top three root causes of pipeline safety incidents were:

1. Not using standards, policies and administrative controls
2. Incorrectly following procedures
3. Not using or not following procedures

As the IACA team becomes more actively involved in the Incident Analysis (IA) process, we will dive deeply into root cause analysis and aid in building strong corrective actions to reduce incidents where the root cause is related to standards, policies and procedures. You will see ongoing internal communications related to Lessons Learned and Effective Safety Discussions (ESDs).

We can only build a culture of compliance, safety and reliability if we all work together to follow the standards, policies and procedures established in our Pipeline Safety Management System.

August 11 is National 811 Day

Do you have a project that involves digging? If so, don't forget to include notifying 811 – the one-call utility locator service – in your excavation plans. Damage from digging activities can cause power outages and pipeline accidents, and we need your help to prevent them!



Dial 811 or enter an online request at least 72 hours before digging in Massachusetts and Rhode Island (excluding weekends and legal holidays) and at least two full working days in New York (excluding the date of your request, weekends and legal holidays).

- Massachusetts and Rhode Island: digsafe.com
- Upstate New York: digsafelynewyork.com
- Metro New York, Long Island and the Rockaways: newyork-811.com

This August 11, and every time you dig, avoid possible property damage, personal injury, fines and repair costs by notifying 811 before you begin. The free one-call service will have underground utility lines marked, so you can dig a safe distance away. Remember: it's the law for everyone – not just contractors! And it's required even for small jobs – like digging a post hole or removing an overgrown shrub.

Congratulations and thanks to dedicated firefighters

Two entire fire departments in Massachusetts have achieved 100% completion of National Grid's First Responder e-Learning Program and received Natural Gas and Electrical Safety Training Certification. National Grid staff were on hand to offer congratulations and present plaques to the dedicated firefighters at Rockland and Boxford fire departments.



Rockland Fire Department (left to right):
 Chief Scott Duffey, Joe Carroll and Kayla May from National Grid, Lt. Jonathan Hickey, Lt. Charles Williams, Ft. Patrick Sammon, Ft. Sean Kennedy, Ft. Scott Margolis, Ft. James Malone



Boxford Fire Department (left to right):
 Lt. John Philbin, Paramedic; National Grid's Joseph Muraco; Chief Brian Geiger; Lt. Tyler Brown; National Grid's David Santana



PRINCIPAL PARTNER UN CLIMATE CHANGE CONFERENCE UK 2021

IN PARTNERSHIP WITH ITALY

Stakeholder engagement



What is COP26?

COP26 in 2021 is the world's most significant summit on climate change to date, and National Grid is proud to be a Principal Partner.

The **Conference of the Parties (COP)** is an annual summit attended by all the 197 countries (including the EU) that signed the United Nations Framework Convention on Climate Change (UNFCCC) in 1994. This year marks the 26th conference, which will be held in Glasgow in November 2021.

COP26 is critical because it's the first moment when countries must set out more ambitious goals for ending their contribution to climate change under the 2015 Paris Agreement. Under that agreement, all the signatories to the UNFCCC agreed to maintain temperatures at no more than 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius.

This will be the biggest summit the UK has ever hosted, with 30,000 attendees expected. Alongside our fellow Principal Partners, National Grid will support the UK government in the delivery of a successful COP26.

Why are we involved?

National Grid plays a vital role at the heart of a clean, fair and affordable energy future, and we connect many of the efforts to tackle climate change. That's what makes us different.

Our involvement as a Principal Partner provides us with a global showcase for the important role we will play in building a sustainable future for the next generation. It will give us influence and enable collaboration with the most prominent and influential thought leaders and governments as we tackle the defining problem of our times.

We're focused on finding ways to deliver cleaner, greener energy, from building interconnectors to allow the UK to share clean energy with our neighbors in Europe to investing in renewable energy generation in the US. As a responsible business, we're also committed to caring for the environment. The time is now to make a long-lasting impact for generations to come.

Get involved with our COP26 climate challenge, and visit our [COP26 homepage](#) for more resources and information.

Join the COP26 Yammer group and find out more about COP26 on our dedicated Grid:home hub.

Pipeline safety spotlight recognition



Mary Jordan, Senior Technical Inspector, Upstate New York

Mary began her career at National Grid in Field Operations and has worked in Gas Material Standards MEQIP for the past 6 years. Mary is passionate, energetic and detail-oriented. She has a desire to continually learn and improve, receiving certifications from the ASQ for Quality Technician, Quality Inspector and Quality Auditor. She provides high-quality, timely inspections of our critical materials. Mary is well respected for her gas material and specification knowledge as well as her tireless work ethic. She is an integral asset at the Clifton Park location and is always available to assist with material issues and questions. Mary will not rest until the issue is resolved. She volunteers her time for many needy causes, including speaking at schools about her life experiences and building beds for children who need them.

Every quarter, *The Pulse* will feature an article about an employee or team that you nominate for the Employee Spotlight. Nominate an employee, coworker or team who embodies National Grid values, and we will put them in the spotlight for some well-deserved recognition. Email contact information for your nomination and why you believe they are deserving of recognition to Lead Communications Specialist Lisa Callahan at lisa.callahan@nationalgrid.com.

At National Grid, we constantly refine and improve our efforts to keep our customers, communities and employees safe. That's our commitment to you.



Know what's below. 811 before you dig.

Bring Energy to Life

