

Using Technology to Keep Our Pipeline Safe

The use of technology is a vital part of Iroquois' on-going integrity monitoring program. Established in compliance with the safety initiatives of the United States Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA), Iroquois' program includes the use of cathodic protection systems designed to protect the buried pipeline from corrosion. While cathodic protection may sound very technical and complex, basically it is the method of using electrical current (electrons) to slow or prevent corrosion of metal structures that are buried or located underwater.

These systems include installation of what is commonly referred to as a "ground bed" in which anodes are inserted into the soil near the pipeline. The anodes, which are electrically connected to the pipe via a wire, provide an easier path-to-ground for the electrons (where they naturally want to go). The location where these electrons leave the anode is where corrosion takes place; therefore, the anodes are sacrificed (corroded) in order to protect the pipeline.

There are two types of cathodic protection systems: impressed current and galvanic. The impressed current system typically protects a larger distance and uses anodes that are manufactured from materials that are consumed at low rates. These systems are activated by an outside power source that provides AC current to a rectifier which converts the AC current into DC current. The anodes then direct the electrons towards the pipeline.

The galvanic system is designed to cover a smaller, more localized section

of pipe and operates on the principle of an underground battery. An active metal (anode) connected to a less active material (steel pipeline) will form a galvanic corrosion cell. The anode with the more active metal will corrode to protect the pipeline.

Since the chemistry of the soil plays an important role in how the electrons travel and how it affects the corrosion process, system design and field tests are required before any cathodic protection system is installed. While impressed current systems were installed at the time the pipeline was constructed, periodic testing identifies locations that, due to various factors such as rock or soil structure, may require future installation of a ground bed.

After installation, these cathodic protection systems are inspected at regular intervals to ensure they are operating as designed. In addition, every spring, field crews conduct an annual cathodic protection and pipeline integrity survey along Iroquois' right-of-way. It is important to note that all field crews carry identification authorizing their presence on the right-of-way. If you have any questions regarding work being done on or near our pipeline, or would like any additional information, please contact the ROW agent for your area.



An anode being placed into the ground

Iroquois Awards Community Grants

The following organizations have been selected to receive grants under the Iroquois Community Grant Program's 2011 second funding cycle:

Village of Boonville, NY
(Passive Recreation) - Installation of drainage and improvements to the Black River Feeder Canal Towpath trail

Town of Wright, NY
(Civic & Community) - Enhance and repair damage done to the nature park/trail and tennis/basketball courts caused by flooding

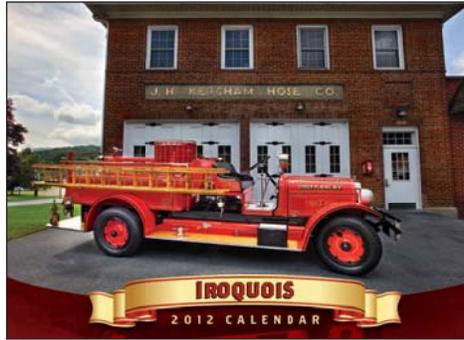
Newtown Forest Association, Newtown, CT
(Environmental Enhancement and Education) - Support of the Newtown Tree Project's tree sapling distribution at the 2012 Newtown Labor Day Parade and 2012 Earth Day Festival

Shelton Conservation Commission, Shelton, CT - (Passive Recreation) - Construction of a half-mile section of trail to complete the 4.0-mile Shelton Lakes Recreation Path

For eligibility requirements and/or application criteria, please visit our website at www.iroquois.com/iroquois-grants.asp

Iroquois' Public Awareness Program

Iroquois remains committed to ensuring that our neighbors are aware of the presence of our pipeline and what can be done to safeguard those around it. We accomplish this through various communication tools such as our annual calendar, which is mailed to public officials, emergency responders, and our affected public (residents and businesses within 1,000 feet of the pipeline). Much effort is put into selecting photos every year with the hope that the Calendar will be kept and displayed.



However, it is the important safety message provided on the back cover that we encourage our neighbors to read, share and retain for reference.

To help us determine if our affected public message is clear and effective, we included a short survey card in the mailing with our 2012 Calendar. In return for taking part in the survey, all respondents were offered an opportunity to enter a drawing for a \$100 AMEX Gift Card. We thank all those who participated, and congratulate raffle winners Mary (Shelton, CT), Richard (New Milford, CT) and Ronnie (Earlton, NY).

Community Outreach Committee Supports Local Charitable Organizations

Iroquois' employee driven Community Outreach Committee (COC) plays an important role in directing support to local charitable and non-profit 501(c)3 organizations within our pipeline communities.

The committee meets monthly to

review requests for support of educational, cultural arts and civic programs which improve the quality of life for community residents along the pipeline. Listed below are some of the many organizations who received funding:

ACT/Spooner House
Athens Community Food Pantry
Athens Little League
Beaver Falls Library
BHcare - Center for Domestic Violence
Big Brothers/Big Sisters North Country
Big Brothers/Big Sisters of SWCT
Boonville Youth Athletic Association
Boys & Girls Club of LNV
Boys & Girls Village
Bridgeport Hospital Foundation
Brookfield High School-Grad Party Project
Canton Neighborhood Center
Clinton Community Library
Community Board #2
Community Culinary School NW CT
Connecticut Burns Care Foundation
Dover United Youth Soccer
Duanesburg Area Community Center
Friends of Lewis County Hospice
Greene County Agricultural Society
Greenville Beautification Committee
Harrisville Central School-Project Prom

Housatonic Valley Association
Huntington New York YMCA
Iroquois Indian Museum
Island Harvest
LaGrange Soccer League
Lewis County Opportunities, Inc.
Little Britches Therapeutic Riding
Lowville Little League
Lowville Youth Soccer
Milford Fine Arts Council
Mountain View Prevention Services
Schoharie County Community Action
Shelton High School PTSO-Project Prom
Shelton Parks & Recreation Dept.
Sustainable South Bronx
TEAM, Inc.
The Fresh Air Fund
Town of Athens-Annual Street Festival
United Way of Long Island-Project Warmth
United Way of Milford
Valley United Way - CVC
Valley YMCA
Village of Boonville-Summer Rec Program

Open Invitation to All Pipeline Community Emergency Officials

To help prevent and prepare for emergencies on our system, Iroquois provides emergency officials with industry standard and system specific information through informational meetings and on-site training sessions.

We welcome the opportunity to provide your organization with in-depth information concerning activities on our pipeline right-of-way and our emergency management response program.

To arrange for a presentation, please contact:

Phil McDonald,

Northern District, ROW Agent

315-346-1615 ext. 228

New York: St. Lawrence, Lewis, Oneida, Herkimer, and Montgomery County

Spencer Robinson

Southern District, ROW Agent

518-945-2685 ext. 226

New York: Schoharie, Schenectady, Albany, Greene, Columbia, Dutchess and Suffolk County.

Connecticut: Fairfield, Litchfield and New Haven County