



Corrosion Protection Of Ductile Iron Pipe

**United States. Department of
Transportation**



Corrosion Protection Of Ductile Iron Pipe:

Review of the Bureau of Reclamation's Corrosion Prevention Standards for Ductile Iron Pipe National Research Council, Division on Engineering and Physical Sciences, National Materials Advisory Board, Committee on the Review of the Bureau of Reclamation's Corrosion Prevention Standards for Ductile Iron Pipe, 2009-11-19 Ductile iron pipe DIP was introduced about 50 years ago as a more economical and better performing product for water transmission and distribution. As with iron or steel pipes DIP is subject to corrosion the rate of which depends on the environment in which the pipe is placed. Corrosion mitigation protocols are employed to slow the corrosion process to an acceptable rate for the application. When to use corrosion mitigation systems and which system depends on the corrosivity of the soils in which the pipeline is buried. The Bureau of Reclamation's specification for DIP in highly corrosive soil has been contested by some as an overly stringent requirement necessitating the pipe to be modified from its as manufactured state and thereby adding unnecessary cost to a pipeline system. This book evaluates the specifications in question and presents findings and recommendations. Specifically the authoring committee answers the following questions: Does polyethylene encasement with cathodic protection work on ductile iron pipe installed in highly corrosive soils? Will polyethylene encasement and cathodic protection reliably provide a minimum service life of 50 years? What possible alternative corrosion mitigation methods for DIP would provide a service life of 50 years?

Standard Guide for External Corrosion Protection of Ductile Iron Pipe Utilizing Polyethylene Encasement Supplemented by Cathodic Protection , Review of the Bureau of Reclamation's Corrosion Prevention Standards for Ductile Iron Pipe National Research Council (U.S.). Committee on the Review of the Bureau of Reclamation's Corrosion Prevention Standards for Ductile Iron Pipe, 2009. Cast iron is a material that was used for years to fabricate pipe for applications such as water transmission and distribution. About 50 years ago ductile iron pipe DIP was introduced as a more economical and better performing product. DIP is similar to cast iron pipe CIP in that it contains several percent carbon distributed as graphite in an iron matrix. However by the addition of small amounts of magnesium and the controlled annealing of DIP the graphite becomes distributed as spherical nodules in DIP whereas it is distributed in the form of flakes in traditional CIP. This microstructure in DIP results in mechanical properties that are superior to those of traditional cast iron. DIP is also centrifugally cast in a steel mold in contrast to the casting of CIP in traditional sand molds with sand cores. As with iron or steel pipes DIP is subject to corrosion the rate of which depends on the environment in which the pipe is placed. Corrosion mitigation protocols that depend on the corrosivity of the soil are employed to slow the corrosion process to an acceptable rate for the application. A popular economical and often effective corrosion mitigation method for DIP in buried applications is the use of polyethylene encasement PE consisting of a sheet of polyethylene wrapped around the pipe or a tube of polyethylene sheeting slipped over the pipe at the time of installation. Another protective method is to use bonded dielectric coatings consisting of various polymers applied as coatings on prepared surfaces or wrap tapes with

adhesives on the same prepared surfaces Bonded dielectric coatings are commonly used on steel pipes but are less commonly used on DIP Cathodic protection CP can also be used to protect metal pipes including DIP CP electrochemically protects the metal structure either by imposing a direct current dc electrical potential to the pipeline or by connecting the pipeline to a sacrificial anode made of a more electrochemically active metal The decision to use corrosion mitigation systems and the choice of the system to use for buried DIP depend on the corrosivity of the soils in which the pipeline is buried Many methods of assessing the corrosivity of soils have been developed All use the resistivity of the soil either as the defining parameter or as one parameter in conjunction with others such as the presence or concentration of specific chemical species that foster corrosion Soils with low resistivity are more corrosive than soils with high resistivity *Ductile-iron Pipe and Fittings* American Water Works Association,2003 Provides practical information about the design and installation of ductile iron pressure piping systems for water utilities The 12 chapters outlines the procedure for calculating pipe wall thickness and class and describes the types of joints fittings valves linings and corrosion protection a **Service Life of Drainage Pipe** Lester H. Gabriel,1998 The synthesis describes the current state of the practice regarding state transportation agency standards and strategies that determine and define the service life of drainage pipe Information for the synthesis was collected by surveying state transportation agencies and by conducting a literature search Avant propos *External Corrosion Introduction to Chemistry and Control* AWWA Staff,2013-04-19 This manual of water supply practices explains the causes and prevention of external pipe corrosion Third Edition **Code of Federal Regulations** ,2000 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of with ancillaries **Regulations for the Transportation of Natural and Other Gas by Pipeline** United States. Office of Pipeline Safety,1974 **Code of Federal Regulations, Title 49, Transportation, PT. 178-199, Revised as of October 1, 2014** U S Office of the Federal Register,2015-02-20 *Pipeline Infrastructure Renewal and Asset Management* Mohammad Najafi,2016-03-17 Value Estimate and Manage Your Pipeline Infrastructure Assets Implement pipeline infrastructure management policies that are sustainable cost effective and environmentally friendly using the hands on instruction and best practices contained in this practical guide Written by an expert pipeline engineer Pipeline Infrastructure Renewal and Asset Management offers in depth technical and administrative coverage and provides real world case studies and illustrations You will get complete information on pipeline life expectancy budgeting renewal regulations and standards and inspections Throughout details are provided for the full range of pipeline renewal methods for water sewer and pressure pipelines Pipeline Infrastructure Renewal and Asset Management covers Pipeline Asset Management Design Considerations for Trenchless Renewal Methods TRM Condition Assessment Pipe and Pipe Installation Considerations Cured in Place Pipe CIPP Sliplining SL Modified Sliplining MSL Pipe Bursting PB Spray in Place Pipe SIPP Close fit Pipe CFP Sewer Manhole Renewal SMR Lateral Renewal LR Localized Repairs LOR *Orders of the Public Service Commission of Wisconsin* Public Service

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