

Format, Content, and Other Guidelines for Developing a Materials Selection Diagram

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ABSTRACT

This standard practice provides format, content, and other guidelines for developing a materials selection diagram (MSD). An MSD documents the materials selection of new equipment and piping for the refinery, process chemical, power, and other industries. Information is also provided on key issues that arise when materials are selected. This standard is maintained by Task Group 302.

KEYWORDS

Refineries, materials selection, MSD.

Foreword

This standard practice provides format, content, and other guidelines for developing a materials selection diagram (MSD). An MSD documents the materials selection of new equipment and piping for the refinery, process chemical, power, and other industries.

This standard is intended for use by the owner/operators, licensors, and the contractor/fabricators of petroleum refineries, process chemical plants, power plants, and other industrial processing plants as a reference guide for developing an MSD to identify the materials of construction and the process conditions and other key technical issues that influence the selection of materials for use during the development and construction phases of projects.

This standard was originally prepared in 2007 by Task Group (TG) 302, “Refining and Chemicals Material Selection Diagrams: Standard,” and was revised in 2013 by Specific Technology Group (STG) 34, “Petroleum Refining and Gas Processing.” TG 302 is administered by STG 34 and is sponsored by STG 36, “Process Industry: Materials Performance in Chemicals.” This standard is issued by NACE under the auspices of STG 34.

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