

**STATUS OF USA
NUCLEAR REACTOR PRESSURE
VESSEL SURVEILLANCE FOR
RADIATION EFFECTS**

L. E. Steele, *editor*



STATUS OF USA NUCLEAR REACTOR PRESSURE VESSEL SURVEILLANCE FOR RADIATION EFFECTS

Sponsored by
The Metal Properties Council

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L. E. Steele
Naval Research Laboratory
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Foreword

The Metal Properties Council, Inc., as part of its continuing role of collecting, analyzing, and updating materials properties data, has arranged for the preparation of this book which is edited by L. E. Steele.

This new volume includes changes which have occurred since the first volume of this series, *ASTM STP 481, Analysis of Reactor Vessel Radiation Effects Surveillance Programs*, was published in 1970.

The organization of this volume includes contributions by representatives from each of the Nuclear Steam Supply Systems vendors, the Utility industry, and input and guidance from The Metal Properties Council, Inc. The objective is to provide useful information to the primary audience—the Utility industry.

This volume has been reviewed and approved by Subcommittee 6 on Materials for Nuclear Reactors of The Metal Properties Council. It is published with the cooperation of ASTM.

The Metal Properties Council will continue to gather information from reactor pressure vessel surveillance programs. Results and analyses of these data will form the bases of future volumes in this series.

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Related ASTM Publications

Effects of Radiation on Materials (10th International Symposium), STP 725 (1981), 04-725000-35

Effluent and Environmental Radiation Surveillance, STP 698 (1980), 04-698000-35

Effects of Radiation on Structural Materials (9th International Symposium), STP 683 (1979), 04-683000-35

Quality Systems in the Nuclear Industry, STP 616 (1977), 04-616000-34

Manual of Coating Work for Light-Water Nuclear Power Primary Containment and Other Safety-Related Facilities (First Edition), 1979, 03-401079-14

Annual Book of ASTM Standards, Part 45, Nuclear Standards, 1982, 01-045082-35

A Note of Appreciation to Reviewers

This publication is made possible by the authors and, also, the unheralded efforts of the reviewers. This body of technical experts whose dedication, sacrifice of time and effort, and collective wisdom in reviewing the papers must be acknowledged. The quality level of ASTM publications is a direct function of their respected opinions. On behalf of ASTM we acknowledge with appreciation their contribution.

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