

United States Transuranium and Uranium Registries Radiochemical Analysis Procedures Manual

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UNITED STATES TRANSURANIUM AND URANIUM REGISTRIES
ANALYTICAL PROCEDURE MANUAL

Forward

The United States Transuranium and Uranium Registries (USTUR) began with the establishment of the National Plutonium Registry in 1968 by the Atomic Energy Commission. The program name was changed in 1970 to reflect a broader interest in transuranic elements. A similar program was created in 1978 to study the uranium decay series and was named the United States Uranium Registry. Analytical support for the registries was provided by Rocky Flats from 1968 until 1987, Pacific Northwest Laboratory from 1968 until 1978, and Los Alamos National Laboratory from 1971 until 1993. Responsibility for the Registries was transferred to Washington State University in February 1992 at which time the two registries were joined as the USTUR.

Authorship of these procedures is listed as USTUR Radiochemistry Staff. Appropriate citation of original LANL methods is included in each section. Modification and additions to LANL procedures and new procedures/methods were written by Jim Elliston, Roy Filby, Sam Glover, Cathy Grimm, Suzanne Love, Hongguo Qu, Dorothy Stuit and Gail Deckert.

This manual represents the third edition of the USTUR Radiochemical Analysis Procedures Manual. All previous editions shall be immediately superseded by this edition.

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The following Radiochemical Analysis Procedure Manual is for the use of the United States Transuranium and Uranium Registries Radiochemistry Program:

Preface

This manual contains the radiochemical sample preparation and analysis procedures for the United States Transuranium and Uranium Registries (USTUR) Radiochemistry Program.

USTUR manuals are controlled and numbered documents assigned to specific individuals. Assignees are responsible for updating their respective manuals. Manual remain the property of the United States Transuranium and uranium Registries and may not be transferred without written authorization. All manuals must be returned to the USTUR upon request.

Annual Review

This manual will undergo an annual review and be reviewed and revised as needed. Any changes and additions to the procedures will be approved by the Director of Radiochemistry before being implemented.

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