# SHUTTLE SERIES
# GALILEO RTG DOCUMENTS

A Shuttle payload, the Galileo spacecraft was to conduct a comprehensive investigation of the Jupiter planetary system. The prime source of electric power for Galileo was a nuclear power source called the radioisotope thermoelectric generator (RTG). Because a nuclear device was to fly on a Shuttle mission, in depth safety analyses were required. This subseries of documents contains those safety analysis reports. These documents were received from the NSTS Program Office (GA) and have been organized chronologically. The dates range from 1984 to 1988.

## Inventory

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|---|---|---|
| **SubHeading:** | **Box Number: 1** | |
| | Aerospace Nuclear Safety Launch Approval Process or NASA Missions (draft) Implementation Plan for Aerospace Nuclear Safety Launch Approval or Galileo & ISPM (draft) | June 1984 |
| | RTG Assessment Worksheets for MSFC Shuttle Elements | 1984 |
| | Final Safety Analysis Report for the Galileo Mission and the Ulysses Mission (4 volumes) GE Report GESP7200 (draft) | Aug. 15, 1985 |
| **SubHeading:** | **Box Number: 2** | |
| | Final Safety Analysis Report for the Galileo Mission and the Ulysses Mission (3 vols.) GE Report GESP7200 | Oct. 8, 1985 |
| | Final Safety Analysis Report for the Galileo Mission and the Ulysses Mission, Vol. III (Book 1) Nuclear Risk Analysis Document, GE #GESP7201 | Oct. 23, 1985 |
| | Final Safety Analysis Report for the Galileo Mission and the Ulysses Mission Vol. II (Book 2) Nuclear Risk Assessment Document Appendices, NUS Corporation, NUS4784 | Oct. 23, 1985 |
| | Light Weight Radioisotope Heater Unit Safety Analysis Report (2 vols.) Monsanto Report, MLM-3293 | Oct. 1985 |
| | Final Safety Analysis Report or the Galileo Mission and the Ulysses Mission Supplement to Volume II (Book 1) Accident Model Document GE Document GESP7200 | Dec. 17, 1985 |
| | Final Safety Analysis Report for the Galileo Mission and the Ulysses Mission, Supplement to Vol. III (Book 1) Nuclear Risk Assessment Document, GE document GESP7201 | Dec. 17, 1985 |
| | Hydrogen / Oxygen Explosion Environments for Nuclear Safety Analysis, Galileo / Ulysses Presentation | Jan. 24, 1986 |
| | Agreements at INSRP / NASA / DOE (draft) | Apr. 22 - 24, 1986 |
| | Galileo 31st Quarterly Report | Nov. 17, 1988 |
| **SubHeading:** | **Box Number: 3 *** | |
| | Space Shuttle Data for Planetary Mission Radioisotope Thermoelectric Generator (RTG) Safety Analysis Appendix B, Addendum A-D, section 3, JSC-08116 * This 1128 page document has been scanned | n.d. |
| **SubHeading:** | **Box Number: 4 *** | |
| | Space Shuttle Data for Planetary | n. d. |

Mission Radioisotope Thermoelectric Generator (RTG) Safety Analysis Appendix B, Addendum D, sections 4-7, & Addendum E, JSC-08116 * This 581 page document has been scanned