

## CENTER SERIES

### SOLAR POWER SATELLITE (SPS)

The concept of a solar power satellite involves placing a large solar collector in geosynchronous orbit to gather and transmit via microwave a constant supply of energy to a rectenna on the earth's surface. Dr. Peter Glaser of the A.D. Little engineering firm was the first to present the concept in 1968. NASA and some private sector interests analyzed the concept in the early 1970's, however, intensive work did not begin until 1976 when the Department of Energy and NASA initiated a concept development and evaluation program (CDEP) to be completed in 1980. Under terms of the agreement the DOE and its contractors studied the socioeconomic issues surrounding SPS, made a comparative assessment of the technology with others available, and evaluated the environmental, health and safety implications of the satellite. NASA, on the other hand, focused its efforts on system definition activities. JSC and MSFC sponsored contracts with Boeing and Rockwell respectively. Both were required to examine questions of energy conversion in space, transmission of power to earth, space transportation, and space construction. The larger work of these companies is supplemented by numerous smaller contracted efforts and NASA in-house studies (filed at the end of the subseries). The collection begins with a group of related correspondence (1971 - 1981), presentation materials, bibliographies and reference lists. Following it is a preliminary Boeing system definition study report that preceded the concept development period. Most of the subseries consists of DOE, contractor, and NASA documents associated with CDEP. Note that particular interest is paid to the problem of microwave power transmission. Materials are filed chronologically by subject and are dated from 1971 - 1981. For additional information, see the Congressional Files in the General Reference collection and budget related materials in the files of Joseph Loftus.

#### Inventory

<b>SubHeading:</b>	<b>Box Number: 01</b>	
CORRESPONDENCE, BIBLIOGRAPHIES, VIEWGRAPHS	Correspondence (5 folders)	1971 - 1981, n.d.
CORRESPONDENCE, BIBLIOGRAPHIES, VIEWGRAPHS	SPS In-house Documentation Bibliography, Argonne National Laboratory	December 1978
CORRESPONDENCE, BIBLIOGRAPHIES, VIEWGRAPHS	Summaries of Solar Power Satellite (SPS) Energy Collection and Conversion System Studies, Systems Design Office, Spacecraft Design Division, JSC	May 1979
CORRESPONDENCE, BIBLIOGRAPHIES, VIEWGRAPHS	Satellite Power System (SPS) Bibliographies, Argonne National Laboratory	January 1979
<b>SubHeading:</b>	<b>Box Number: 02</b>	
CORRESPONDENCE, BIBLIOGRAPHIES, VIEWGRAPHS	Solar Power Satellite (NASA Viewgraphs with numbers) (6 folders)	1975 - 1979, n.d.
CORRESPONDENCE, BIBLIOGRAPHIES, VIEWGRAPHS	Satellite Power System Briefing to NASA Council	July 16, 1976
CORRESPONDENCE, BIBLIOGRAPHIES, VIEWGRAPHS	SPS Program Mid-Year Status Report to JSC Director	January 20, 1977
<b>SubHeading:</b>	<b>Box Number: 03</b>	
BOEING SPS SYSTEM DEFINITION STUDY (PRELIMINARY)	Boeing, NAS9-15196, SPS System Definition Study Part 1: Mid-term Briefing	March 9, 1977
BOEING SPS SYSTEM DEFINITION STUDY (PRELIMINARY)	Boeing, NAS9-15196, SPS System Definition Study Part I: Final Briefing	May 5, 1977
BOEING SPS SYSTEM DEFINITION STUDY (PRELIMINARY)	Boeing, NAS9-15196, SPS System Definition Study Part I, Volume IV: SPS Transportation Systems Requirements	August 1, 1977
BOEING SPS SYSTEM DEFINITION STUDY (PRELIMINARY)	Boeing, NAS9-15196, SPS System Definition Study, Part I, Volume V: SPS Transportation Representative System Descriptions	July 28, 1977
<b>SubHeading:</b>	<b>Box Number: 04</b>	
BOEING SPS SYSTEM DEFINITION STUDY (PRELIMINARY)	Boeing, NAS9-15196, SPS System Definition Study, Part I, Volume II: System Requirements and Energy Conversion Options	July 29, 1977
BOEING SPS SYSTEM DEFINITION	Boeing, NAS9-15196, SPS System	December 1977

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BOEING SPS SYSTEM DEFINITION STUDY (PRELIMINARY)	Boeing, NAS9-15196, SPS System Definition Study, Part I and Part II, Volume II: Technical Summary	December 1977
BOEING SPS SYSTEM DEFINITION STUDY (PRELIMINARY)	Boeing, NAS9-15196, SPS System Definition Study, Part II, Volume III: SPS Satellite Systems	December 1977
BOEING SPS SYSTEM DEFINITION STUDY (PRELIMINARY)	Boeing, NAS9-15196, SPS System Definition Study, Part II, Volume IV: Microwave Power Transmission Systems	December 1977
<b>SubHeading:</b>	<b>Box Number: 05</b>	
BOEING SPS SYSTEM DEFINITION STUDY (PRELIMINARY)	Boeing, NAS9-15196, SPS System Definition Study, Part II, Volume V: Space Operations	December 1977
BOEING SPS SYSTEM DEFINITION STUDY (PRELIMINARY)	Boeing, NAS9-15196, SPS System Definition Study, Part II, Volume VI: Evaluation Databook	December 1977
BOEING SPS SYSTEM DEFINITION STUDY (PRELIMINARY)	Boeing, NAS9-15196, SPS System Definition Study, Part II, Volume VIII: SPS Launch Vehicle Ascent and Entry Sonic Overpressure and Noise Effects	December 1977
NASA / DOE CONCEPT DEVELOPMENT AND EVALUATION	JSC-09991, JSC Six Week Study, Space Solar Power Development Laboratory	October 1975
NASA / DOE CONCEPT DEVELOPMENT AND EVALUATION	JSC-11568, Initial Technical, Environmental and Economic Evaluation of Space Solar Power Concepts, Volume I: Summary	August 31, 1976
NASA / DOE CONCEPT DEVELOPMENT AND EVALUATION	JSC-11568, Initial Technical, Environmental, and Economic Evaluation of Space Solar Power Concepts, Volume II: Detailed Report	August 31, 1976
<b>SubHeading:</b>	<b>Box Number: 06</b>	
NASA / DOE CONCEPT DEVELOPMENT AND EVALUATION	SPS Concept Development and Evaluation Program Plan, Volume I and II: July 1977 - August 1980 Working Paper	February 1977
NASA / DOE CONCEPT DEVELOPMENT AND EVALUATION	JSC-12702, Preliminary Assessment of Technology Advancement Requirements for Space Solar Power	March 1977
NASA / DOE CONCEPT DEVELOPMENT AND EVALUATION	Space Solar Power Description of Concept - Results of Preliminary Studies. Requirements for Evaluation (presentation materials and fact sheet)	March - April 1977
NASA / DOE CONCEPT DEVELOPMENT AND EVALUATION	NASA Solar Power Satellite Concept Evaluation, Activities Report July 1976 to June 1977, Volume I: Summary	July 1977
NASA / DOE CONCEPT DEVELOPMENT AND EVALUATION	Preliminary Baseline SPS Concept Recommendations to DOE / NASA by the Marshall Space Flight Center at NASA Headquarters, Washington, D.C.	January 24, 1978
NASA / DOE CONCEPT DEVELOPMENT AND EVALUATION	NASA - JSC Satellite Power System (SPS) Concept Evaluation Program (July 1977 - August 1980) (DOE - NASA). A Recommended Preliminary Baseline Concept, Systems Definition Study	January 25, 1978
NASA / DOE CONCEPT DEVELOPMENT AND EVALUATION	DOE/ET-0034, Satellite Power System (SPS) Concept Development and Evaluation Program Plan, July 1977 - August 1980	February 1978
NASA / DOE CONCEPT DEVELOPMENT AND EVALUATION	DOE/ER-0023, Satellite Power System Concept Development and Evaluation Program. Reference System Report	October 1978
<b>SubHeading:</b>	<b>Box Number: 07</b>	
DOE / ENVIRONMENTAL, HEALTH, AND SAFETY ASSESSMENT	DOE/ER/10003-T1, SPS CDEP, Impact of SPS Heating on VLF, LF,	July 1980

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DOE / COMPARATIVE ASSESSMENT	DOE/ER-0051, A Methodology for the Comparative Assessment of the Satellite Power System (SPS) and Alternative Technologies	January 1980
DOE / COMPARATIVE ASSESSMENT	DOE/ER-0053, Health and Safety: Preliminary Comparative Assessment of the Satellite Power System (SPS) and Other Energy Alternatives	April 1980
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SOCIOECONOMIC ISSUES ASSESSMENT	HCP/R-4024-04, Satellite Power System (SPS) Public Acceptance	October 1978
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