

Administration

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1. Overview

At the beginning of 1996, the SPring-8 Team started to generate specific activities for beamlines such as placing procurement orders to equipment vendors. SPring-8 plans to open some of the public beamlines in the autumn of 1997.

Construction work has been progressing smoothly. By the summer of 1997, the construction of the accelerator building will be completed. Moreover, three buildings are currently being constructed in accordance with the provisions of the 1995 supplementary budget. These three buildings are for bio-medical imaging R&D, experiment preparation, and for the guest house with completion scheduled during the summer of 1997.

Linac commissioning began in August 1996, and the machine was successfully accelerated up to 1 GeV. December 1996 saw the completion of the storage ring, together with the start of synchrotron commissioning and the preparations for beam experiments.

The SPring-8 Project Team hosted five international workshops during 1996, while SPring-8's International Advisory Committee met for the fifth time in April.

Subsequent sections of this report will address the following themes:

- Project Status;
- Budget;
- Project Organization;
- Contract Beamlines;
- Symposia and Workshops.

2. SPring-8 Project Status

2.1 Facility Construction

Table 1 indicates the progress being made in construction and equipment installation for the principal SPring-8 buildings as of

December 1996.

Table 1: SPring-8 construction and equipment installation (December 1996)

	Percentage complete		
	Equipment installation	Construction of buildings	Equipment installation and construction of buildings
Linac	100.0	100.0	100.0
Synchrotron	98.0	100.0	100.0
Storage ring	87.0	100.0	93.5
Beamline	59.0	-	59.0
Other buildings*	-	42.3	42.3
Total	86.1	95.3	90.7

*Main building, cafeteria, machine laboratory

2.2 SPring-8 Project Progress

Historical Landmarks

- November 1986 STA established a Synchrotron Project Promotion Section
- October 1988 JAERI and RIKEN formed the SPring-8 Project Team.
- June 1989 Harima Science Garden City, Harima, Hyogo Prefecture, was selected as the SPring-8 construction site
- March 1991 Manufacture of machines for the storage ring and linac began
- November 1991 Construction of storage ring building began
- February 1993 Linac building construction began
- August 1993 Synchrotron building construction began
- April 1995 Completion of Synchrotron building
- May 1995 Installation of linac and synchrotron machines began
- August 1996 Commissioning of linac (achieving 1 GeV)

December 1996 Commissioning of synchrotron (achieving 8 GeV)
 March 1997 Storage ring commissioning started
 October 1997 Operation of public beamlines scheduled to begin

3. SPring-8 Budget

3.1 Phase 1 Expenditure

The original budget plan for SPring-8 Phase 1 (covering construction) was based on the spending of 108.9 billion yen over 12 years (1987-1998). However, the provisions of two supplementary budgets during fiscal year 1995, will enable SPring-8 to begin its operation in the autumn of 1997, one year ahead of schedule.

Table 2 shows the progress of contracts issued to contractors (expressed in terms of the percentage of the total construction budget), together with the actual payments made to contractors for each of the successive years during the construction phase.

Table 2: Budget plan (1987-1997)

	Percentage of total construction budget	
	Actual payments made to contractors	Total value of contracts placed with contractors
1987	0.1	0.1
1988	0.6	0.6
1989	2.4	2.4
1990	4.9	6.8
1991	9.4	15.9
1992	15.8	26.3
1993	28.4	40.8
1994	51.9	73.0
1995	64.3	85.3
1996	90.9	99.8
1997	100.0	100.0

3.2 Fiscal Year 1996 Budget (April 1996 - March 1997)

The spending of the SPring-8 Project Team for fiscal year 1996 (JAERI and RIKEN) was 16,407 million yen. The construction of the accelerator, 10 public beamlines, and other buildings, accounted for 73 percent of this total. (This includes a modest addition to the 1995 supplementary budget for constructing the biomedical imaging center, accelerator and Beamline R&D facility, and guest houses.)

JAERI and RIKEN shared administration costs (excluding maintenance expenses).

4. SPring-8 Project Organization

4.1 Organizational Structure

The present SPring-8 organizational structure, established in September 1995, enables both the SPring-8 Project Team and JASRI staff to make direct contributions to the project organization. This dual participation aims to support the smooth transfer of the overall responsibility for the operation and management of the SPring-8 facility to JASRI when it is completed. As part of this policy, the SPring-8 Project Team has been transferring its staff to JASRI.

At the end of December 1996, the SPring-8 project had a total staff of 289: 181 of whom belonged to the SPring-8 Project Team, while the remaining 108 were the members of JASRI. Figure 1 shows the project's organizational structure.

4.2 Committees

SPring-8 has established the Steering Coordination Committee to promote the effective coordination of work undertaken by JAERI, RIKEN and JASRI. This Steering Coordination Committee also presides over the Beamline Advisory Committee, which is responsible for evaluating proposals for public use beam lines. Figure 2 illustrates how the SPring-8's principle committees interact with each other.

In May 1996, the Beamline Advisory Committee deliberated on nine proposals for public beamlines. These proposals constitute

part of the second phase of public beamline construction that will increase the total number of beamlines from ten (constructed under phase one) to twenty. The Beamline Advisory Committee will reach a decision about six of the second phase beamlines in April 1997.

5. Contract Beamlines

The SPring-8 Project Team plans to complete the construction of ten public beamlines, together with an additional three beamlines for the exclusive use of JAERI and RIKEN. Subject to the approval by the Contract Beamline Committee, it will also be possible for external research organizations to construct their own special-use beamlines.

After evaluating the seven special-use beamlines proposals in 1995, the Beamline Committee approved five beamlines in 1996 for the following organizations.

- National Institute for Research in Inorganic Materials, Science and Technology Agency
- Research Center for Protein Engineering, Osaka University
- Hyogo Prefecture Government (Himeji Institute of Technology)
- Industrial organization I
- Industrial organization II

6. Workshops and International Advisory Committee

During 1996, the SPring-8 Team hosted the following meetings on synchrotron radiation and related issues.

April	8-9	Third Joint APS-ESRF-SPring-8 Workshop
	17-19	International Workshop on 30m Long Straight Sections
	22-25	SPring-8 Fifth International Advisory Committee
June	6-8	Workshop on Theoretical Physics for Exploitation of Synchrotron Radiation
November	19-27	Japan-India Joint Workshop
	21-22	Workshop on Beam Physics