

International Review Meeting of the SSRF Project

Committee Charge

Review Committee

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SSRF/SINAP, Shanghai, April 26-27, 2009

Committee Charge

The Shanghai Synchrotron Radiation Facility (SSRF) is a newly constructed 3.5GeV third generation light source that has completed initial commissioning and is planning to open for experiments by users. This project was proposed by the Chinese Academy of Sciences and the Shanghai Municipal Government in 1995. R&D to finalize the design and build prototype components was carried out from 1999 to 2001. The project was officially launched at the end of 2004 with a ground breaking on Dec. 25, 2004. Within three years a beam was stored and the first light observed on Dec.24, 2007. After about one year of commissioning activities the accelerators have achieved their design specifications. All seven phase-I beamlines and experimental stations have also achieved their main design specifications and are ready for experiments by users. The SSRF storage ring now operates at 3.5GeV energy, 200mA beam current and ~3.9nm-rad emittance, with orbit stability at a level of 1-2 μm .

As it developed, the SSRF project has had many international reviews. The first review of conceptual design was carried out in Shanghai in September 1996, the second on beamlines in Shanghai in October 1999, the third on accelerators at LBNL Berkeley, USA in February 2000, the fourth on beamlines at SPring-8, Japan in August 2004, and the fifth on accelerators at SPring-8 in August 2005. In addition, there have been many dedicated international reviews on sub-systems of the SSRF project from 2005 to 2008. The present review is the last international review before the SSRF is open for user experiments. Therefore, the main charge of the review committee is to make an assessment of the SSRF performance and readiness for user operation, including an assessment on the construction and commissioning of the SSRF accelerators and phase-I beamlines. The committee is asked to focus on the following:

- 1) Evaluation of technical specifications and facility performance achieved;
- 2) Readiness of the machine and beamlines for user experiments;
- 3) Suggestions for user operation and preparation for user experiments.

The Committee is expected to express its findings, comments and recommendations in a written report which should be submitted to the Director of the SSRF Executive Board, Prof. Mianheng Jiang, on or before May 31, 2009.

Since the SSRF is just at the beginning of user operation, user administration and related operations issues such as Safety will not be formally reviewed in detail. However suggestions and comments by the committee are welcome and can be included in the review report.

Review Committee:

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Agenda of the International Review Meeting of the SSRF Project

Saturday, April 25, 2009

8:00 – 22:00	Registration	Parkyard Hotel
19:00 – 21:00	Welcome Reception	Huang Pu River Cruise

Sunday, April 26, 2009

Morning Session		Chair: H. Winick	
8:00 – 8:15	Visit the Central Control Room of the SSRF		
8:15 – 8:55	Executive Session	Room 121	
9:00 – 9:05	Welcome Remarks	M. H. Jiang	Room 116
9:05 – 10:00	SSRF Project Status and Phase-I Beamline Overview	H. J. Xu	
10:00 – 10:45	SSRF Accelerator Complex Overview	Z. T. Zhao	
10:45 – 11:00	Group Photo and Coffee Break		
11:00 --12:30	Facility Tour		
12:30 – 13:30	Lunch	SSRF Cafeteria	
Afternoon Session -I, Accelerator Session		Chair: L. C. Teng	Room 121
13:30 – 13:50	SSRF Accelerator commissioning	Guimin Liu	
13:50 – 14:10	Beam instrumentation	Yongbin Leng	
14:10 – 14:30	Control system	Liren Shen	
14:30 – 14:50	RF system	Jianfei Liu	
14:50 – 15:10	Cryogenics system	Jieping Xu	
15:10 – 15:30	Coffee Break		
15:30 – 15:50	Magnets and phase-I insertion devices	Qiaogen Zhou	
15:50 – 16:10	Magnet girder and alignment	Hanwen Du	
16:10 – 16:30	Vacuum system	Dikui Jiang	
16:30 – 16:50	Injection and extraction systems	Ming Gu	
16:50 – 17:10	Magnet power supplies	Tianjian Shen	
17:10 – 17:45	Executive Session		

Afternoon Session –II, Beamline Session		Chair: C. C. Kao	Room 101
13:30 – 13:50	Macromolecular Crystallography Beamline	Jianhua He	
13:50 – 14:10	X-ray Diffraction Beamline	Zhong Li	
14:10 – 14:30	XAFS Beamline	Yuying Huang	
14:30 – 14:50	Hard X-ray Micro-Focusing Beamline	Xiaohan Yu	
14:50 – 15:10	X-ray Imaging and Biomedical Applications Beamline	Tiqiao Xiao	
15:10 – 15:30	Coffee Break		
15:30 – 15:50	Soft X-ray Spectromicroscopy Beamline	Renzhong Tai	
15:50 – 16:10	Small Angle X-ray Scattering Beamline	Jie Wang	
16:10 – 16:30	Front-ends and mechanical system for Phase-I beamlines	Guanyuan Wu	
16:30 – 16:50	Metrology, alignment and FE analysis for Phase-I beamlines	Jie Wang	
16:50 – 17:10	Beamline control system	Zhong Li	
17:10 – 17:45	Executive Session		
Banquet			
18:00 – 20:00	Review Committee Banquet	Dongjiao State Guest Hotel	

Monday, April 27, 2009

8:30 – 9:00	Executive session	Room 121
9:00 – 10:30	Questioning and discussions in two groups	Room 121 and 101 separately
10:30 – 10:45	Coffee break	
10:45 – 12:00	Executive sessions in two groups	Room 121 and 101 separately
12:00 – 13:30	Lunch	SSRF Cafeteria
13:30 – 15:30	Executive session and report writing	Room 121 and 101 separately
15:30 – 15:45	Coffee break	
15:45 – 16:45	Closeout	Room 116

Presentation:

Hongjie Xu	SSRF Project Status and Phase-I Beamline Overview	xuhongjie@sinap.ac.cn
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Venue:

SSRF Administration Building

239 Zhang Heng Road, Pudong New District, Shanghai 201204, China

Transportation:

Shuttle schedule

Date	Morning	Afternoon
Saturday, April 25		17:30 from Parkyard Hotel to River Cruise for reception 21:00 back to Parkyard Hotel after reception
Sunday, April 26	7:45 from Parkyard Hotel to SSRF	17:45 from SSRF to Dongjiao State Guest Hotel for Banquet 20:00 back to Parkyard Hotel after Banquet
Monday, April 27	8:10 from Parkyard Hotel to SSRF	17:00 from SSRF to Parkyard Hotel

Map:

