



Kárahnjúkar Hydroelectric Project
Technical Seminar 17th and 18th September 2007
Grand Hotel, Reykjavík
Site visit to Kárahnjúkar Project 19th September 2007

September 17th 2007
Session 1

- 08:00-08:10 **Opening of the seminar**
Agnar Olsen, Director Engineering and Construction, Landsvirkjun
- 08:10-08:20 **The importance of the Kárahnjúkar Project**
Páll Magnússon, Chairman of the Board of Directors, Landsvirkjun
- 08:20-08:40 **Landsvirkjun project implementation approach**
Agnar Olsen, Director Engineering and Construction, Landsvirkjun
- 08:40-09:10 **Project overview, Project execution structure**
Guðmundur Pétursson, Head of Project Management, Landsvirkjun
- 09:10-09:30 **Environmental impact assessment (EIA)**
Sigurður Arnalds, Project Public Relations, Landsvirkjun
- 09:30-10:00 Coffee break

Session 2

- 10:00-10:30 **Geological investigations**
Ágúst Guðmundsson, M.Sc. geologist, Geoice Geological Services
- 10:30-10:50 **Seismic considerations**
Prof. Ragnar Sigbjörnsson, Earthquake Engineering Research Center
- 10:50-11:10 **Outstanding hydraulic features of the Project**
Bela Petry Professor Em. UNESCO-IHE Institute for Water Education. Consultant.
- 11:10-12:15 **Hydraulic model tests**
Michael Pfister, Dipl.-Ing. ETH Zentrum; *Josef Schneider*, TUG Graz University of Technology; *Gunnar Guðni Tómasson*, KEJV/VST; *Arnoldo Baumann*, KEJV/Pöyry Energy Ltd
- 12:15-12:30 Discussions
- 12:30-13:30 Lunch

Session 3

- 13:30-14:10 **Design of the Kárahnjúkar CFRD dam**
Pálmi Jóhannesson, Lead design engineer, KEJV/MWH/Palmi Associates
- 14:10-14:40 **Construction of the Kárahnjúkar dam**
Richard Graham, Chief engineer, Impregilo S.p.A
- 14:40-15:10 **Kárahnjúkar dam performance during impounding**
Henrique Perez, Project Manager, resident engineer, KEJV/MWH
- 15:10-15:30 Discussions
- 15:30-16:00 Coffee break

- 16:00-16:30 **Design of central core dams**
Jón Skúlason, Lead engineer Sauðárdalsstífla dam, KEJV/Almenna; *Pálmi Ragnar Pálmason*, Lead engineer, Desjarárstífla dam, KEJV/VST
- 16:30-17:00 **Construction supervision of dams and tunnel**
Mike Talliss, VIJV/Mott MacDonald
- 17:00-17:30 Discussions

September 18th 2007
Session 4

- 08:00-08:35 **Design of headrace tunnel and waterways**
Sveinn I. Ólafsson, Lead mechanical engineer, KEJV/VST and *Joseph J. Kaelin*, Lead engineer Headrace tunnel, KEJV/Pöyry Energy Ltd
- 08:35-09:10 **Construction of headrace tunnel**
Gianni Porta, Project manager, Impregilo S.p.A; *Lok Home*, President, The Robbins Company
- 09:10-09:30 Discussions
- 09:30-10:00 Coffee break

Session 5

- 10:00-10:40 **Powerstation – design philosophy**
Kristján Már Sigurjónsson, Project manager, KEJV/VST; *Sveinn I. Ólafsson*, Lead mechanical engineer, KEJV/VST; *Helgi Þór Helgason*, Lead electrical engineer, KEJV/Rafteikning
- 10:40-11:10 **Construction of powerhouse civil structures and raise boring of pressure shafts**
Hans-Dieter Imhof, Fosskraft/Hochtief; *Reynir Viðarsson*, Fosskraft/Ístak Ltd.
- 11:10-11:40 **Construction supervision of powerhouse structures and electro-mechanical equipment**
Gonzalo de la Fuente, KSJV/Lahmeyer Int.
- 11:40-12:00 Discussions
- 12:00-13:00 Lunch

Session 6

- 13:00-13:30 **Steel pressure shafts and distributors**
Manfred Singer, DSD Stahlbau AG
- 13:30-14:00 **Hydromechanical equipment and gates**
Enrico Camparada, ATB Riva Calzoni S.p.A.
- 14:00:14:30 **High head Francis turbines and mechanical equipment**
Josef Moosmann, *Robert Freyer*, *Stefan Birk*, VA Tech Escher Wyss GmbH
- 14:30-15:10 **Generating units and electrical equipment**
Harald Fuchs, *Gottfried Simon*, VA Tech Hydro - Andritz
- 15:10-15:40 **Switchgear equipment and transmission lines**
Þórður Guðmundsson, Managing director, Landsnet
- 15:40-16:00 Discussions
- 16:00-16:30 Coffee break

Session 7

16:30-16:45	Environmental monitoring and mitigation measures <i>Björn Stefánsson</i> , Head of Power Projects, Landsvirkjun
16:45-17:00	Landsvirkjun and Alcoa sustainability initiative <i>Ragnheiður Ólafsdóttir</i> , Environmental manager, Landsvirkjun
17:00-17:15	Information and public debate <i>Sigurður Arnalds</i> , Project Public relations, Landsvirkjun
17:15-17:30	Conclusion and closing of seminar <i>Guðmundur Pétursson</i> , Head of Project Management, Landsvirkjun
19:00	Dinner at Restaurant Perlan, Reykjavík

September 19th 2007 Site visit to Kárahnjúkar Project

Full day guided visit to Kárahnjúkar Project site.

Time of departure: 08:15 from Reykjavík Airport. Return flight from Egilsstaðir airport at 18:00.

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