

Discussões e Troca de Experiências sobre Sistemas de Transposição de Água

AGENDA

October 23 (Monday)	
<p>10h - ANA: PISF Operation & Regulation Challenges Superintendence presentations on challenges related to PISF SFI, SRE, SPR, SOE</p>	<ul style="list-style-type: none"> • Current challenges related to PISF institutional framework, operational planning, monitoring, control and enforcement
<p>14h - USGS/USBR: Water Transfer Projects in USA & CVP Presentation on overview, background, institutional roles & current challenges PISF Technical Visit (description & general impression)</p>	<ul style="list-style-type: none"> • Overview of water transfer systems in US, institutions involved, current challenges, strategies and procedures related to operational planning, monitoring and control
October 24, (Tuesday)	
<p>9h - USGS/USBR – Operation</p> <ul style="list-style-type: none"> • Operational planning & pump scheduling: guidelines for operations at annual, monthly and daily scales • Definition of water demands • Hydrologic predictions • Operational procedures during droughts • Operational procedures during emergencies • Operational planning documents 	<ul style="list-style-type: none"> • How the system operation is planned and what is the preparation period? What hydrological scenarios are used? How water demands are defined? How different institutions participate in the operational planning? • How operation plans are revised throughout the year? Does that affect existing plan and actual operation? • How adverse situations such as droughts affect operational plans and actual operation? • What is historical record of emergency situations (such as channel breaches and disruption of pump stations) and their impacts on operation? How those situations are handled?
<p>14h - USGS/USBR – Monitoring & Control</p> <ul style="list-style-type: none"> • Operational monitoring & control: water levels & flows within the system, location and sample frequency • Control of water users: water withdrawals monitoring, equipment, automation • Irregular water users: how to control and existing penalties • Admission of new water users 	<ul style="list-style-type: none"> • How is the system monitored (water levels, volumes and withdrawals)? With which frequency variables are measured and monitoring devices and sensors are checked/calibrated? What is the acceptable range of errors in flow/volume measurements? • Operational reports are generated automatically? Who has access to such reports? • Which institutions or water users participate in the supervision of the system operation (what if the water use do not get the water requested)? • How are illegal water uses controlled? What kind of penalties/fees apply to unauthorized water use or action? How to deal with such illegal actions that might affect operation?

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<p>October 25 (Wednesday)</p> <p>9h - USGS/USBR – System performance & maintenance</p> <ul style="list-style-type: none"> • Indicators of system performance • Estimates of water losses in channels and rivers • Channel/groundwater interaction • Estimates of pump efficiencies • System maintenance: procedures and guidelines to guide maintenance procedures • Requirements for initiating commercial operation 	<ul style="list-style-type: none"> • • How much water is lost through the system? How water losses are measured and controlled? With which frequency such water losses are assessed? • What are the actual pump efficiencies? How pump efficiencies are measured and assessed? How pump efficiencies affect system performance and how to keep them at good standards? • How the system's performance is assessed? Which performance indicators are used?
<p>14h - USGS/USBR – Water charges & system financing</p> <ul style="list-style-type: none"> • Water use contracts • Water use payment: water charges applied to different water users & water charges during droughts • Water charge structure (which elements are considered in it calculus) • Energy needs & demand forecasting • Mechanisms & procedures for setting water charges • Operational & maintenance costs & system sustainability 	<ul style="list-style-type: none"> • How water charges are calculated? Do water charges change according to water use characteristics? Do water charges change during dry seasons or drought situations? • How water and energy demands are forecasted? How to manage energy costs and its impacts in water charges? • How water charges are billed and paid (over planned deliveries or measured deliveries)? What kind of insurance exists to cover delinquent users or insufficient income?
<p>October 26 (Thursday)</p>	
<p>USGS/USBR: internal preparation & discussion</p>	
<p>October 27 (Friday)</p>	
<p>9h - Meeting with Directors</p> <ul style="list-style-type: none"> • USGS/BoR presentation on discussion findings & recommendations 	<ul style="list-style-type: none"> • What are your major impressions about PISF and its challenges, and what key recommendations you might have to improve its performance and sustainability in the future.