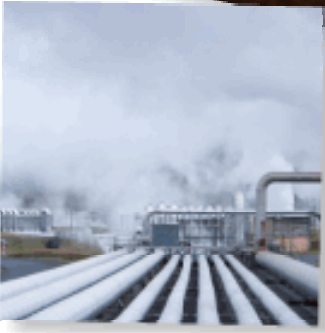




Scheduling and Dispatch

SO Workshop - November 2008

John Bartley



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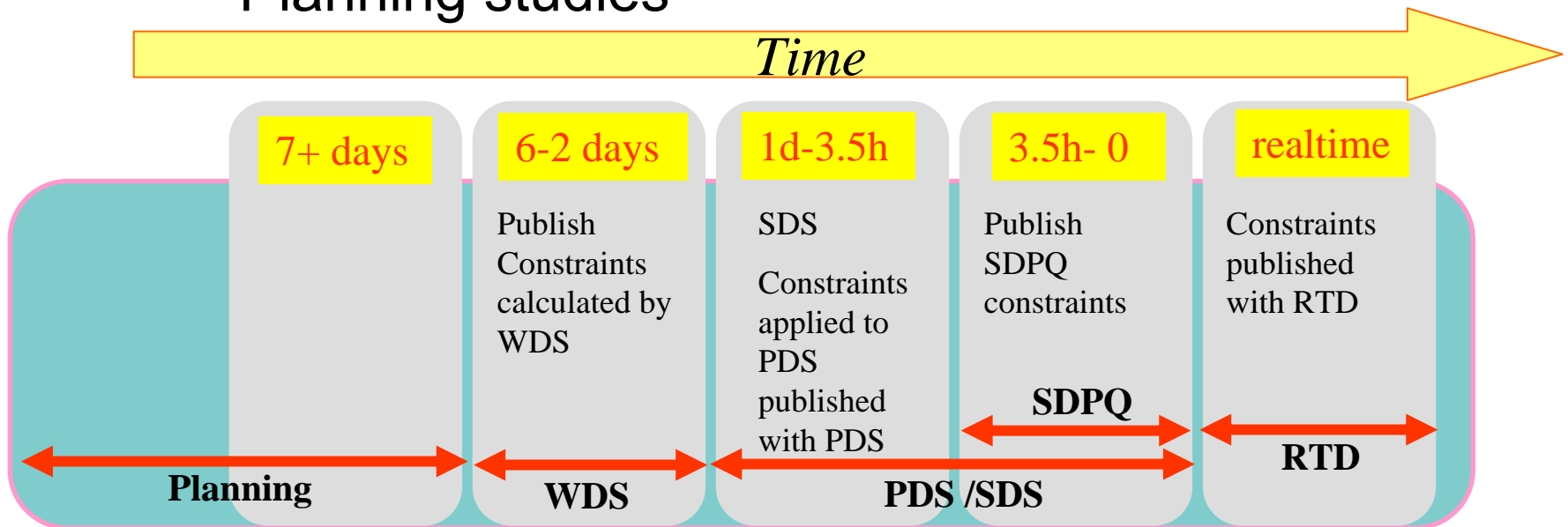
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Main Changes

- Overview of Scheduling and Dispatch
- Dispatch modes
- Automatic identification, selection and dispatch of frequency keepers
- Block security constraint processing and notification
- Market Notices

Overview of Scheduling and Dispatch

- Real Time Dispatch, Final Pricing and Real Time Pricing
- Production Schedules (SDPQ, PDS, SDS, WDS)
- Planning studies



Dispatch Modes

Although intention is to continue manually sending dispatch instructions at go-live, the long term goal is to automate the sending of dispatch instructions

- Inclusion of new short term load forecast will enable auto-dispatch



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Frequency Keeping

- Automatic identification, selection and dispatch of frequency keepers.
- Publish the frequency keeper selection with the PDS schedule.
- Auto send frequency keeping dispatch instructions for the next trading period 15 minutes prior to the start of that trading period, or if the selected frequency keeper(s) change within 15 minutes of the start of that trading period.
- Auto send frequency keeping dispatch instructions for the current trading period immediately a change is made to the selected frequency keepers for the current trading period.
- When a frequency keeping dispatch is sent for a unit or station that forms part of a block dispatch agreement a block security constraint flag is automatically sent with the dispatch instruction.
- Use the most recently applied frequency keeping constraints in all schedules except WDS.

Block Security Constraint (BSC) processing

- Will be automated to facilitate identification of stations within block dispatch groups that are affected by binding constraints.
- Automated block security constraint processing will also be used to notify frequency keeping stations subject to block security constraint agreements.
- For the PDS, BSC processing will remove any station within a block dispatch group that is sensitive to a scheduled binding constraint. The BSC results (block name, market node name and constraint name) are published to M-Co, for each affected trading period by way of a BSC flag in the PDS against the affected station.

BSC's identified in the schedule – COMIT mock up

<u>Date</u>	<u>Trading Period</u>	<u>Run Time</u>	<u>Block</u>	<u>Node</u>	<u>Flag</u>	<u>Group Branch Name</u>	<u>Limit</u>	<u>Type</u>	<u>History</u>
10/08/2009	34	10/08/2007 17:20	SSC	STN220 1	G	XXX_YYY_1_S_O_1	500	SDS	History
10/08/2009	34	10/08/2007 17:20	SSC	NOD22 01	G	XXX_YYY_1_S_O_1	500	SDS	History
10/08/2009	34	10/08/2007 15:20	SSC	NOD22 01	G	XXX_YYY_1_S_O_1	500	SDS	History
10/08/2009	34	10/08/2007 15:20	SSC	STN220 1	G	XXX_YYY_1_S_O_1	500	SDS	History
10/08/2009	33	10/08/2007 15:20	SSC	STN220 1	G	XXX_YYY_1_S_O_1	500	SDS	History
10/08/2009	30	10/08/2007 15:20	SSC	NOD22 01	G	AAA_BBB_2_S_O_2	200	SDS	History
10/08/2009	30	10/08/2007 15:20	SSC	STN220 1	G	AAA_BBB_2_S_O_2	200	SDS	History
10/08/2009	30	10/08/2007 13:20	SSC	NOD22 01	G	AAA_BBB_2_S_O_2	200	SDS	History
10/08/2009	30	10/08/2007 13:20	SSC	STN220 1	G	AAA_BBB_2_S_O_2	200	SDS	History
10/08/2009	29	10/08/2007 13:20	SSC	NOD22 01	G	AAA_BBB_2_S_O_2	200	SDS	History
10/08/2009	29	10/08/2007 13:20	SSC	STN220 1	G	AAA_BBB_2_S_O_2	200	SDS	History

Current thinking is to have a rolling window option, as well as a Publication Date/time option. That way a participant can sit on the page (it'll refresh on a regular basis), and they'll see changes as they happen.

RTD BSC processing

- BSC processing will remove any station within a block dispatch group that is sensitive to a real-time binding constraint using a new BSC dispatch instruction type.
- The new instruction will set a flag for the affected station on the market participant's GENCO. The flag will auto-reset at the end of the current trading period if the station is no longer sensitive to the binding constraint.

Dispatch ID	MW	FIR	SIR	Freq (±)	Volt (Kv)	Mvar	Time	RSK6	RSK60	RRUP	RRDN
HLY2201_HLY1	219	25.6		50			13:44:03				
HLY2201_HLY2	219c	25		25			16:49:12			30	
HLY2201_HLY3	219			60			16:31:47				25
HLY2201_HLY4	219c			40			16:50:09			40	10
TAP	520	45		90			13:44:03				25
HLY2201_HLY6											
HLY	90c			23			16:24:50	243	243		65
WTR	510			90			16:42:37				

10-Mar-2005 16:50:10: Dispatch Instruction for HLY2201_HLY4:219MW,40FREQ,16:50:09TIME,40RUP,10RDN,RDNB,IG

Connected to DMT Site 1 Not Connected to DMT Site 2

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Market Notices

- New notice format
 - Grid Emergency Notice (GEN)
 - GEN now incorporates load shedding/restoration requirements
 - Load shedding and restoration instructions now part of GEN and not separately advised via a demand allocation notice

Questions?

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