

**RTO WEST
IMPLEMENTATION WORK GROUP**

**May 23, 2000
0830-1230**

**RTO Offices, Kingstad Center
Portland, OR**

**Meeting Minutes
Version 1 – March 24,2000**

Attendees: (23 total – 20 in person and 3 teleconference*)

Jack Bernhardsen, PNSC	Wally Gibson, NWPPC
John Boucher, KEMA Consulting	Richard Goddard, PGE
Ray Brush, MPC	David James, Avista
Geoff Carr, NRU	Vernon Porter, IPC
Douglas Cave, BC Hydro	Mike Ryan, PGE
Eric Christensen*, Snohomish PUD	Norm Stanley, Pacificorp
Kurt Conger, Rep for Public Gen Utilities	Ralph Underwood, SCL
Carolyn Cowan*, Sierra Pacific/Nevada Pwr	Jim Vinson, BPAT
Mike DeWolf, BPA	Don Watkins, BPA
Christine Elliott, NWPP	Don Wolf, BPA
Mike Ferguson*, USBR	Linc Wolverton
Jon Fisker, PGE	

Calendar:

June 1	0830 - 1700	Implementation Work Group Meeting
June 2	0830 - 1700	Implementation Work Group Meeting
June 9	0830 - 1700	Implementation Work Group Meeting
June 15	0830 - 1700	Implementation Work Group Meeting
June 16	0830 - 1700	Implementation Work Group Meeting
June 22	0830 - 1700	Implementation Work Group Meeting
June 23	0830 - 1700	Implementation Work Group Meeting

Summary of Actions:

1. The work group defined the tasks to be performed between now and the end of July. The major task categories were defined as:
 - a. Definition of operational responsibilities
 - b. Definition of technology, data, and support requirements
 - c. Control center assessment
 - d. Analysis of technology upgrade requirements based selected centers
 - e. Creation of a transition plan

- f. Establishing an RTO budget
2. The work group identified critical inputs required from other work groups and recognized certain assumptions, such as facilities under control, would have to be made in order to complete the recommendations to the RRG on schedule.
 3. The following high level schedule was established:
 - a. In June the following will be completed:
 - i. Initial definition of operational responsibilities
 - ii. Definition of control center assessment criteria
 - iii. Evaluation and selection of primary, back-up, and back-up alternate centers
 - iv. Definition of technology, data and support requirements.
 - b. In July the following will be completed:
 - i. Updated definition of operational responsibilities based on inputs received from other work groups
 - ii. Define technology upgrades required based on control center selection
 - iii. Define organization and staffing
 - iv. Create transition plan
 - v. Establish the RTO budget

Highlights of Meeting by Agenda Item (Agenda Attached)

Agenda Item 1: Introductions

The following two documents, as a foundation for the RTO, were reviewed in the context of their applicability to the Implementation work group's responsibilities:

- a. RTO Form and Structure
- b. RTO Principles

Agenda Item 2: Review of Issues assigned by RRG

The resolutions of other work groups will significantly affect the analysis performed by the Implementation work group. The work group leader (John Boucher) will initially coordinate with other work group leaders to assure that critical inputs are received as quickly as possible.

Top on the list is the definition of the facilities to be included. The Implementation work group will make an initial assumption with the final result coming from the Transmission Pricing work group.

Recommendations from the Congestion Management, Ancillary Services, Seams and Market Monitoring will impact operational responsibilities and supporting technologies. Transition plans from Congestion Management and Ancillary Services will impact Implementation transition plans.

The Implementation work group will approach the Transmission Planning work group to form a joint subgroup to address the implementation of operations planning. The Implementation work group will coordinate the RTO budget with the funding of the RTO through the tariff.

The Implementation work group will define the benefits associated with operations and will make this available for a role-up. Hierarchical control center architecture will be established. A transition plan for a future reduction in the number of control areas will be addressed if sufficient benefits are identified.

Agenda Item 3: Review of Priorities Assigned to Issues

The Issues Priorities document was reviewed in the context of the issues assigned to the Implementation work group.

Agenda Item 4: Tasks and Priorities

Tasks were defined as follows:

- I. Operational Responsibilities
 - a. Model
 - i. Hierarchical control model definition
 - ii. RTO/transmission owner interface
 - b. Security Coordination
 - c. "Pre" Operations
 - i. Operations planning
 - ii. Outage coordination
 - iii. OASIS and scheduling
 - iv. ATC/TTC
 - v. Reserve sharing
 - d. Real-time Operations
 - i. Monitoring and control
 - ii. Voltage control
 - iii. Regulation
 - iv. Load balancing
 - v. Phase shifter
 - vi. Ancillary services
 - vii. Congestion management
 - e. "Post" Operations
 - i. Billing and settlement
 - ii. Accounting
 - iii. Market monitoring
 - iv. Data warehousing
 - v. Audit support
- II. Technology, Data and Support Requirements
 - a. Computer Applications (List)
 - b. Open Architecture
 - c. Communications (List)

- d. Computing Systems
 - i. Computer architecture
 - ii. Data acquisition
 - iii. Data base
 - iv. Back-up/Redundancy/Reliability
 - v. Security
 - e. Support
 - i. Training
 - ii. Procedures
 - iii. Technical support
- III. Physical facilities
- a. Assessment criteria
 - b. Assessment of Ditmer (targeted as the primary control center)
 - c. Assessment of a back-up facility
 - d. Assessment of an alternate back-up facility
- IV. Agreements
- a. Control area
 - b. TCA
 - c. Interconnection
- V. Transition Plan
- a. Description of current situation
 - b. Transition plan including transition plans, if any, from Congestion Management, Ancillary Services, and Seams
- VI. RTO Budget
- a. Both capital and O&M
 - b. Organization and staffing
 - c. Support/administration/regulatory
 - d. Planning
 - e. Market monitoring/Analysis
 - f. Incentives

Agenda Item 5: Work Group Plan and Schedule

- June 2 Initial definition of operational responsibilities
Facilities selection criteria
- June 30 Facilities assessment
Definition of technical, data, and support requirements
- July 24 Definition of required technology upgrades based of
selected control centers
Cost estimates for upgrades
Transition plan
RTO budget

- July 31 Bullet version of resolutions
- August 25 White paper with budget

Next Meeting: June 1 & 2

Initial definition of operational responsibilities
Definition of control center assessment criteria
Scheduling of visits to candidate control centers
Consideration of visits to MISO and ERCOT

Prepared by John Boucher

AGENDA FOR INITIAL MEETING OF IMPLEMENTATION WORK GROUP

- 1) Introductions
- 2) Review of Issues assigned by RRG
 - Issue 5 – RTO budgets (full responsibility)
 - Issue 23 – Operations (lead responsibility)
 - Issue 6 – Control area functions (shared responsibility)
 - Issues 20 – Customer benefits (shared responsibility)
 - Issue 22 – Retail load access (shared responsibility)
 - Issue 4 – Price reciprocity/seams (supporting role)
- 3) Review of Priorities Assigned to Issues
- 4) Tasks and Priorities
 - Principles, structure, philosophy, and assumptions
 - Current situation
 - Operational responsibilities
 - Technology and data requirements
 - Physical facilities
 - Control agreement
 - Staffing and operating procedures requirements
 - Implementation plan and schedule
 - Cost estimates
- 5) Work Group Plan and Schedule

IMPLEMENTATION WORK GROUP

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Thursday, May 25, 2000

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