USGS-FERC COOPERATORS TRAINING

July 17-18, 2012, Sacramento, CA

DRAFT AGENDA : 7/10/12

Tues July 17 :
8:00am:

I. Introduction: (Denis O'Halloran, USGS Ferc Coordinator)
Discussion of facilities, welcome, etc
II. Round Table - introductions/hopes of achievement from class:

III. FERC Coordinator Role: (Denis)
A. USGS/FERC/Cooperator Relationships
1. FERC licenses and Form L-10, Article 8
2. Documentation, verification, approval and publish
B. Licenses and Amendments, Relicensing, Flow Monitoring Plans
C. FERC online, Contacts, Sources of Info, Training (handouts)

IV. FERC Reviews: (Denis)
A. WRD Policy Memo 2008.01
B. FO, CA WSC, OSW Reviews of furnished records
C. Providing records to USGS
1. Deadline Dec 15 annually
2. Documentation needed
D. Updated SW Quality Assurance Plan/Guidelines for Furnished Records

10:00am - Break
10:15am:

V. The Hydrograph:
Overview of Data collection/Records Process :
(Denis, USGS SW Specialist Charles Berenbrock, USGS SW Hydrologist Jeff Kitchen)

A. GAGE DOCUMENTS: (Denis, Jeff)
SW Quality Assurance Plan – Appendix 3, Gage Visit Logs, Station Descriptions, Station Analysis

B. STAGE MEASUREMENTS: (Denis)
TM 3-A7 Stage Measurement at Gaging Stations, inside and outside gages, reference gages, datum, recording visits

C. FLOW MEASUREMENTS: (Jeff)
TM 3- A8 Discharge Measurements at Gaging Stations, use of web Training – "Measurement of Stream Discharge by Wading", HWM's PZF's, check measurements, mean-weighted gage heights, types of equipment, spin test, bucket tests w/flowtracker, artificial controls

D. RECORD COMPUTATION: (Jeff)
TWRI A13 – Computation of Continuous Records of Streamflow and WRIR 01-4044 Standards for the Analysis and Processing of Surface-Water Data and Information Using Electronic Methods
a. Definition of datum corrections, gage height corrections and shifts.
b. Application of datum corrections.
c. Application of gage height corrections.
d. Application of shifts. Types of shifts.

12:00-1:00 Lunch

E. SITE SELECTION: (Denis)
Use of Western Region "SW Field Methods"

F. LEVELS: (Jeff)
TM 3 – A19 Levels at Gaging Stations, Western Region download – "Levels of Streamflow Gaging Stations"
1. Frequency
2. Quality assurance – 2 peg test, rod checks
3. Level Summary Sheet

2:30pm – Break

F. RATINGS: (Jeff, Charles)
Use of Western region web on-line stage-discharge and rating training, Quality Assurance Plan, TWRI A13 "Computation of Continuous Records of Streamflow"
a. Offsets
b. When to draw new curves
c. Curve Smoothness
d. Logarithmic vs Rectilinear
e. Extending ratings
f. Open ended ratings and shifts

DAY 2 – Wed., July 18
8:00am
(Denis, Jeff)

G. RECORD COMPUTATION: Use of various programs, primaries/printouts what to display, explaining computations, data corrections, shifts
H. ESTIMATED RECORD: weather records, hydrographic comparison, observations, measurements, adjoining record
I. HYDROGRAPHS: multiple hydrographs, comparing similar sites
J. STATION ANALYSIS: Examples
K. STATION DESCRIPTIONS: Examples

10:00am – Break
10:15am:

VI. REVIEW PROCESS - Revisit/Wrapup (Denis, Charles, Jeff…)
A. Field Reviews:
B. Record Reviews:
C. Review Standards:
D. USGS FERC Review Forms:
1.) Streamflow
2.) Lakes and Reservoirs
E. Cableway Safety, Inspections and Maintenance
F. Checking, Approving Records
G. Publications/NWISweb

12:00 noon – end

1:00 - 3pm - (optional) Further questions/discussion?