

AGENDA

QUATERNARY FAULT PARAMETERS WORKING GROUP

Tuesday, February 9, 2010

Utah Department of Natural Resources Building, Room 2000 (2nd floor)
1594 West North Temple, Salt Lake City

- 7:00 Continental breakfast
- 7:30 Introduction, overview of meeting, review of last year's activities
- 8:00 Technical presentations of work completed or in progress
8:00 – Brigham City segment, trenching update; Tony Crone/Steve Personius, USGS
8:20 – Washington fault northern segment, trenching update; Bill Lund/Tyler Knudsen, UGS
8:40 – Washington fault Southern Beltway trenching investigation; Dave Simon, Simon • Bymaster, Inc.
9:00 – U.S. Bureau of Reclamation Utah fault studies update; Larry Anderson, USBR
9:20 – Bear River fault zone, trenching update; Suzanne Hecker, USGS
9:40 – East Cache fault zone, trenching update; Jim Evans, USU
- 10:00 Break
- 10:20 Technical presentations of work completed or in progress
10:20 – Salt Lake City segment/West Valley fault zone investigation, progress report; Mike Hylland, UGS
10:40 – Working Group on Utah Earthquake Probabilities; Ivan Wong, URS/Bill Lund, UGS
- 11:00 Technical discussion item
Revised Weber segment slip-rate and recurrence-interval estimates; Chris DuRoss, UGS/Steve Personius, USGS
- 12:00 Lunch
- 1:00 Technical discussion item
Revised Weber segment slip-rate and recurrence-interval estimates – discussion
- 1:30 UQFPWG 2011 fault study priorities (see table 1 for 2010 priority list; see table 2 for original UQFPWG fault priority list)
- 2:30 Adjourn

Table 1. UQFPWG 2010 highest priority list of Quaternary faults/fault segments requiring additional study to adequately characterize Utah's earthquake hazard to a minimally acceptable level, and status of current paleoseismic investigations on all Utah priority faults/fault segments. Yellow highlights changes in past year; green indicates related non-paleoseismic study.

2010 Highest Priority Faults/Fault Sections For Study			
Fault/Fault Section	Priority	Investigation Status	Investigating Institution
Northern Salt Lake City segment WFZ	1	Study funded (NEHRP)	UGS/USGS
West Valley fault zone	2	Study funded (NEHRP)	UGS/USGS
Penultimate event Provo segment WFZ	3	Trench site reconnaissance	UGS
Washington fault	4	Two trenching investigations	UGS/Simon•Bymaster
Rozelle section, Great Salt Lake fault	5	No activity	
Other Priority Faults/Fault Sections Requiring Further Study			
Fault/Fault Section	Original UQFPWG Priority	Investigation Status	Investigating Institution
Cedar City-Parowan monocline/ Paragonah fault	10	No activity	
Enoch graben	11	Earth fissure study	UGS
Clarkston fault	13	No activity	
Gunnison fault	17	No activity	
Scipio Valley faults	18	No activity	
Faults beneath Bear Lake	19	No activity	
Eastern Bear Lake fault	20	No activity	
Carrington fault (Great Salt Lake)	2007	No activity	
Bear River fault zone	2007	Trenching study	USGS
Faults/Fault Sections Studies Complete or Ongoing			
Fault/Fault Section	Original UQFPWG Priority	Investigation Status	Investigating Institution
Nephi segment WFZ	1	UGS Special Study 124/USGS Map 2966/UVSC study ongoing	UGS/USGS/UVSC
Weber segment WFZ – most recent event	3	UGS Special Study 130	UGS/USGS
Weber segment WFZ – multiple events	4	UGS Special Study 130	UGS/USGS
Utah Lake faults and folds	5	Ongoing	UUGG
Great Salt Lake fault zone	6	Ongoing	UUGG
Collinston & Clarkston Mountain segments WFZ	7	UGS Special Study 121	UGS
Sevier/Toroweap fault	8	UGS Special Study 122	UGS
East Cache fault zone	12	Ongoing	USU
Wasatch Range back-valley faults	14	Ongoing	USBR
Hurricane fault	15	UGS Special Study 119	UGS
Levan	16	UGS Map 229	UGS
Brigham City section – most recent event	2007	Ongoing	UGS/USGS

Table 2. Original priority list of Quaternary faults/fault segments identified by the UQFPWG as requiring additional study to adequately characterize Utah's earthquake hazard to a minimally acceptable level.

Fault/Fault Segment	Original UQFPWG Priority (2005)
Nephi segment WFZ	1
West Valley fault zone	2
Weber segment WFZ – most recent event	3
Weber segment WFZ – multiple events	4
Utah Lake faults and folds	5
Great Salt Lake fault zone	6
Collinston & Clarkston Mountain segments WFZ	7
Sevier/Toroweap fault	8
Washington fault	9
Cedar City-Parowan monocline/ Paragonah fault	10
Enoch graben	11
East Cache fault zone	12
Clarkston fault	13
Wasatch Range back-valley faults	14
Hurricane fault	15
Levan	16
Gunnison fault	17
Scipio Valley faults	18
Faults beneath Bear Lake	19
Eastern Bear Lake fault	20
Bear River fault zone	Added 2007
Brigham City segment WFZ – most recent event	Added 2007
Carrington fault (Great Salt Lake)	Added 2007
Provo segment – penultimate event	Added 2007
Rozelle section – Great Salt lake Fault	Added 2007