S/K Challenge
Final Execution Brief

Presented
05 Aug 2014

DUGWAY PROVING GROUND

Unclassified

Overarching Schedule

Planning	15 May 14 & 07 Jul 14
Scenario Development	
Data Package Design	
Referee Packages	
Execution	08-18 Sep 14
Scenarios	
Logistics	
Data Collection	
Reporting	
Final Review	18 Sep 14
Future Improvements	18 Sep 14
Data package delivery	16 Oct 14
Future Efforts	
S/K Challenge II	13-24 Jul 15

S/K Challenge Events List

3 & 4 September –

Early Set up 0730 - 1630

Need customer requirements in advance

8 September –

0730 – 1730 Setup (until Complete)

S/K Challenge Events List

9 September

1700 – 1800 Grid Prep

1830 – 2300 Pilot Test

2300 – 0100 Review Test Process

0100 – 0200 Shutdown

S/K Challenge Events List

10, 11, and 12 September

1700 – 1800 Grid Prep

1800 – Command Post Briefings

1830 – 0400 Record Trials

0400 – 0500 Shutdown

13 and 14 September

Weather days

S/K Challenge Events List

15 September "VIP Day"

1500 Arrival

1530 – 1630 Command Presentations

1700 – 1720 Demonstration

1720 – 1900 Tour test site

1900 – 1945 VIP Social

1945 Travel to hotel

S/K Challenge Events List

15 September "Execution"

1300 – 1500 Test Grid Setup

1500 – 1745 Participate in "VIP" day

1745 – 1900 Support Site Tours

1900 – 1945 VIP Social

2000 – 0200 Record test

0200 – 0300 Shutdown

S/K Challenge Events List

16 September - Day 2 “VIP Tours”

0830 -1730 Participate in Dugway tours

S/K Challenge Events List

16, 17, and 18 September

1700 – 1800 Grid Prep

1800 – Command Post Briefings

1830 – 0400 Record Trials

0400 – 0500 Shutdown

19 September

1200 – (until Complete) grid clean up

Packing and shipping

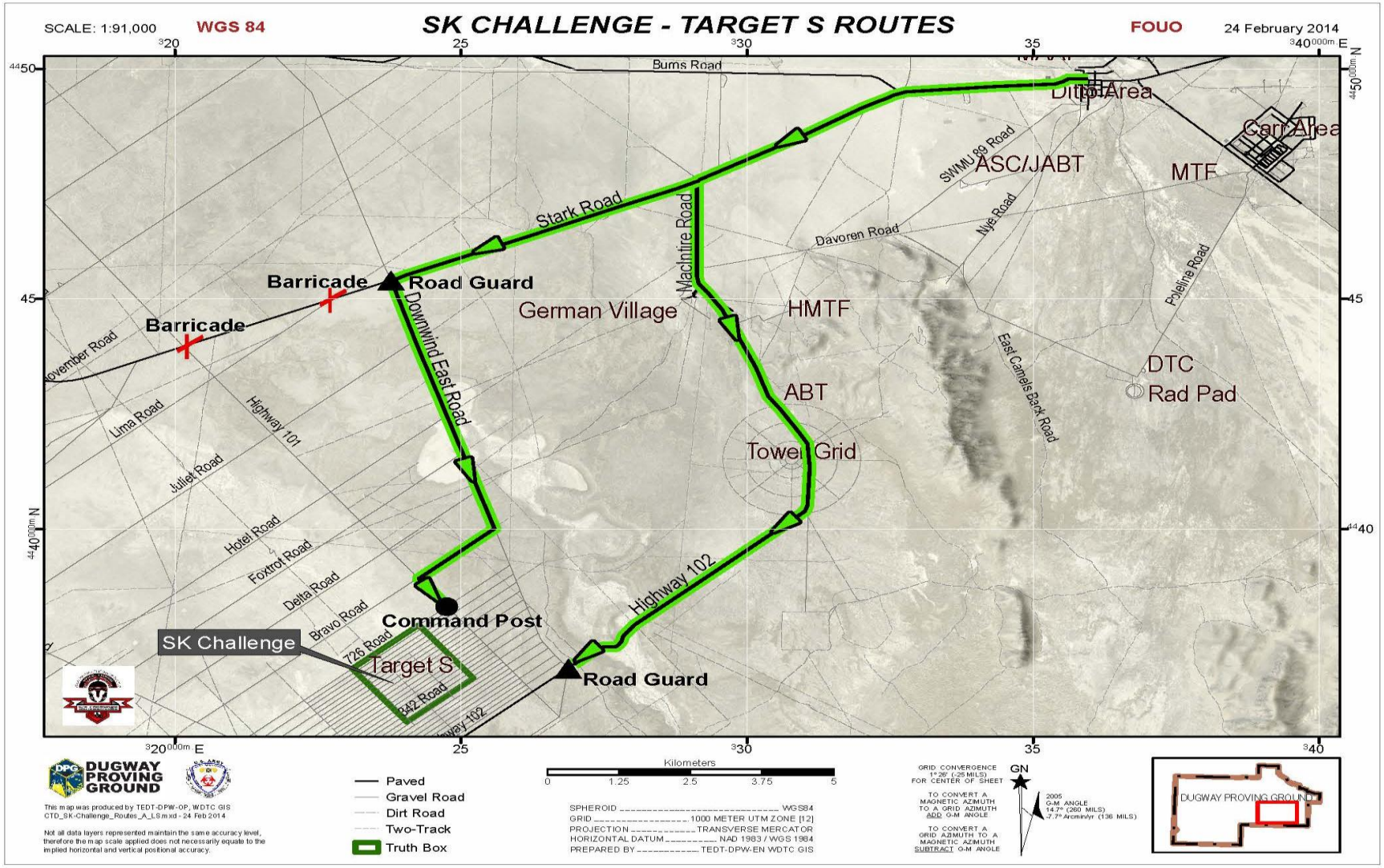
S/K Challenge Events Calendar

SEPTEMBER

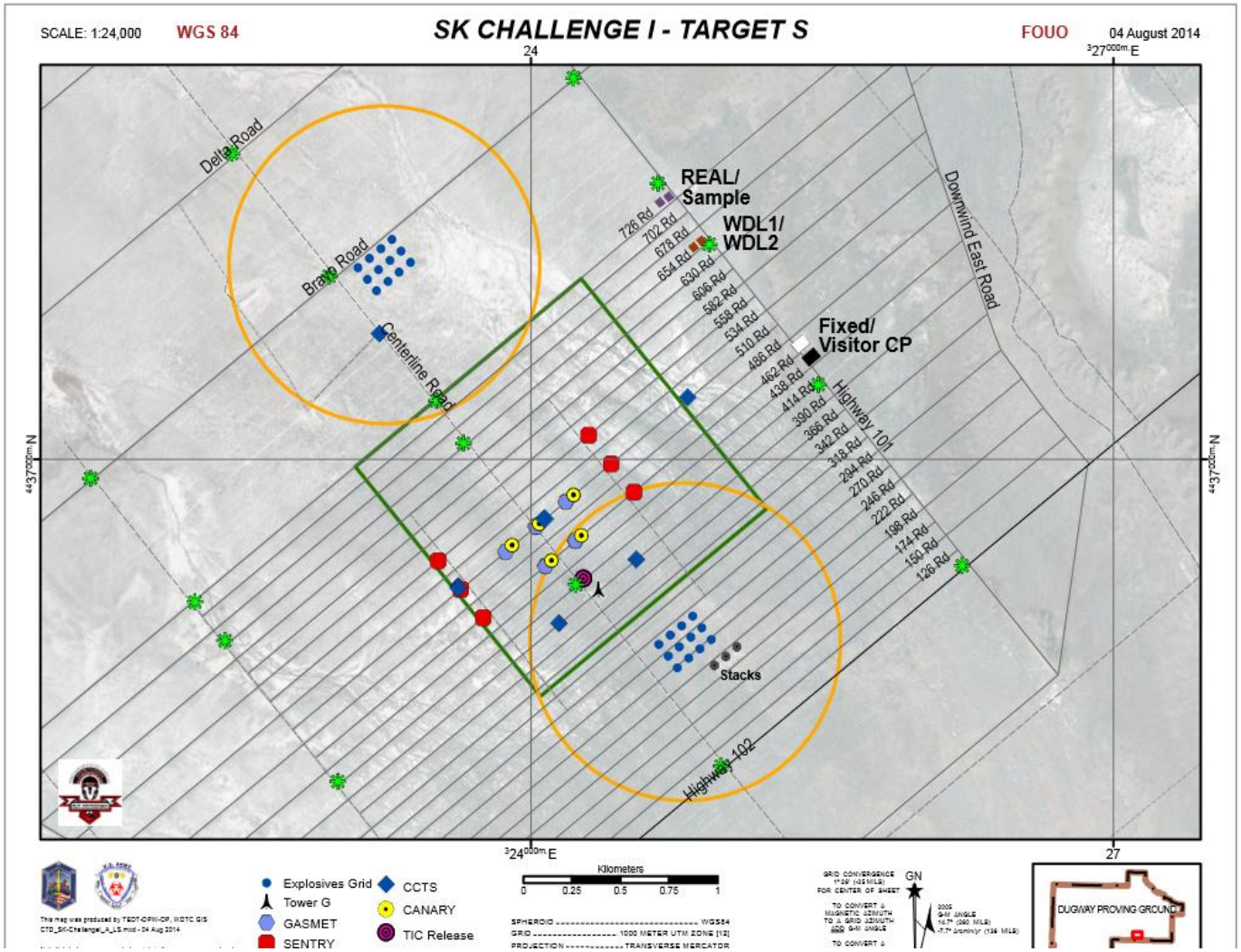
2014

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1 Labor Day	2	3	4 Early Setup 0730 -1630	5 Early Setup 0730 - 1630	6	7
8 Setup 0730 -Until Complete	9 Pilot Test 1700 - 0200	10 Record Test 1700 - 0400	11 Record Test 1700 - 0400	12 Record Test 1700 - 0400	13 Weather Day	14 Weather Day
15 VIP Day 1500 - 1930 Record Test 1930 -0100	16 VIP Dugway Tours 0800 - 1600 Record Test 1700 - 0400	17 Record Test 1700 - 0400	18 Record Test 1700 - 0200	19 1200 -until Complete Clean up, Packing, and Shipping	20	21
22	23	24	25	26	27	28

Test Grid Location



Test Grid Layout



S/K Challenge Master Events List

Test Day	Event	Material	Method	Quantity	Duration	Interferent
Pilot Test Day	PT-1	TEP	Explosive	90 kg		
	PT-2	BG dry	Skil Blower	100 g	10 min	
	PT-3	MeS	Dissemination Cart / AU9200	18 kg	6 min	
	PT-4	OV dry	Air Cannon	5 kg		
	PT-5	TEP/SiO2	Air Cannon	5 kg		
Record Test Day 1	RT1-1	AA	Explosive	120 kg		
	RT1-2	MS2	Micronair	20 L	10 min	
	RT1-3	TEP	Dissemination Cart / AU9200	10 kg	6 min	
	RT1-4	Bg dry	Air cannon	10 kg		
	RT1-5	TEP/SiO2	Large volume aerosol disseminator	6 kg	3 min	
	RT1-6	EH	Sonomist	10 L	10 min	
	RT1-7	MeS	Dissemination Cart / AU9200	15 kg	6 min	
	RT1-8	Cl2	Cylinder	10 kg	10 min	
Record Test Day 2	RT2-1	MeS	Explosive	60 kg		
	RT2-2	EH	Micronair	20 L	10 min	
	RT2-3	MeS	Dissemination Cart / AU9200	15 kg	6 min	
	RT2-4	Bg dry	Skil Blower	200 g	10 min	
	RT2-5	TEP	Dissemination Cart / AU9200	10 kg		
	RT2-6	OV dry	Air Cannon	5 kg		
	RT2-7	TEP/SiO2	Air Cannon	5 kg		
	RT2-8	NH3	Cylinder	10 kg	10 min	
Record Test Day 3	RT3-1	AA	Explosive	120 kg		
	RT3-2	MS2	Micronair	20 L	10 min	
	RT3-3	TEP	Dissemination Cart / AU9200	10 kg	6 min	
	RT3-4	Bg dry	Air cannon	10 kg		
	RT3-5	TEP/SiO2	LVAD	6 kg	3 min	
	RT3-6	EH	Sonomist	10 L	10 min	
	RT3-7	MeS	Dissemination Cart / AU9200	15 kg	6 min	
	RT3-8	Cl2	Cylinder	15 kg	10 min	

S/K Challenge Master Events List

Record Test Day 4	RT4-1	Water	Explosive	120 kg		
VIP Day	RT4-2	OV dry	Air Cannon	5 kg		
	RT4-3	TEP	Dissemination Cart / AU9200	10 kg	6 min	
	RT4-4	MS2	Micronair	20 L	10 min	
	RT4-5	NH3	Cylinder	15 kg	20 min	
Record Test Day 5	RT5-1	MeS	Explosive	60 kg		
	RT5-2	MS2	Micronair	20 L	10 min	
	RT5-3	TEP	Dissemination Cart / AU9200	10 kg	6 min	
	RT5-4	Bg dry	Air cannon	10 kg		
	RT5-5	TEP/SiO2	Large volume aerosol disseminator	6 kg	3 min	
	RT5-6	EH	Sonomist	10 L	10 min	
	RT5-7	MeS	Dissemination Cart / AU9200	15 kg	6 min	
	RT5-8	Cl2	Cylinder	10 kg	10 min	
Record Test Day 6	RT6-1	TEP	Explosive	90 kg		
	RT6-2	EH	Micronair	20 L	10 min	Burning tires
	RT6-3	MeS	Dissemination Cart / AU9200	15 kg	6 min	
	RT6-4	Bg dry	Skil Blower	200 g	10 min	
	RT6-5	TEP	Dissemination Cart / AU9200	10 kg		Road Dust
	RT6-6	OV dry	Air Cannon	5 kg		
	RT6-7	TEP/SiO2	Air Cannon	10 kg		
	RT6-8	NH3	Cylinder	5 kg	5 min	
Record Test Day 7	RT7-1	MeS	Explosive	60 kg		Burning diesel
	RT7-2	BG dry	Air Cannon	1 kg		Burning Brush
	RT7-3	TeP/SiO2	Air Cannon	10 kg		
	RT7-4	OV dry	Skil Blower	200 g	10 min	
	RT7-5	TEP	Dissemination Cart / AU9200	10 kg	10 min	
	RT7-6	OV dry	Air Cannon	5 kg		
	RT7-7	TEP/SiO2	Large volume aerosol disseminator	9 kg	3 min	
	RT7-8	Cl2	Cylinder	15 kg	20 min	

Trial Simulants

Sample-Daily Trial Composition	
TEP (Explosive)*	TEP (Explosive)*
TEP (Aerisol)	TEP (Aerisol)
MeS	MeS
BG (Wet)	BG (Wet)
BG (Dry)	BG (Dry)
EH	EH
OV	OV
Syloid	Syloid
SO2**	NH3

- **Planning for 50 total trials (Objective), 30 trials (Threshold)**
- **Trials consisting of Chem, TIC, and Bio simulants tailored to meet customer demands**
- **Both quick-look and a detailed sample data package to be given to customer**

Instrumentation

Aerosol

- APS
- LIDAR

Vapor

- GASMETS
- CCTS
- Canary
- Sentry

Meteorological

- PWIDS
- MET Towers
- Hazard Models

Execution Process

Customer Requirements

- Limited Access to range after start of the evening.
- Participants will be allowed access before start of trials and at the end of trials each evening.
- Understand individual system troubleshooting cannot delay execution

Dugway Requirements

- Execute trials as weather allows.
- Maintain range safety

Lodging

- To register by phone, call (435) 831- 6500. For more information email: amerdugwaydvqreservations@ihg.com or visit www.ihgarmyhotels.com. Deadline for reservations is 31 August 2014.
- Tooele – 40+ mile drive
- Salt Lake City Airport – 80+ mile drive

Final Customer Meetings

- Personnel
- VIP's
- Mask procedures
- Power requirements
- Equipment placement
- Other

Questions

S/K Challenge II

13-24 Jul 15

DUGWAY PROVING GROUND

P R E S E N T S

S/K CHALLENGE