SAND2010-5306P

Agenda for PPS Design and Installation Workshop – Week 2 at ISSTEC

Day 6 – Monday, May 12 (ISSTEC)

Time	Mod or Exercise	No.	Title	# of slides	Time Req'd	Comments
8:45 – 9:00			Introduction		15 min	• Go over ISSTEC safety rules, location of restrooms, etc. • Review Objectives and Agenda of Workshop 2nd week
9:00 – 9:30	Module	1	Site Familiarization and Characterization		30 min	• Briefly go over facility purpose, Description, DBT, PPS Requirements. (Review from Friday) • State how many people work at site and shift hours • Go over ASD
9:30 – 10:45	Exercise	1A	Site Familiarization and Characterization	n/a	75 min	▪ Walk the facility to observe and make notes of current PP elements: Perimeter, ECP, Processing/Storage Building H, CAS & Equipment Room. Brief Demo on. CAS operation.
10:45 – 11:00	Break					
11:00 – 12:15	Exercise	1B	Identify Additional Physical Protection Elements for ISSTEC	n/a	75 min	Identify and document where and what type of additional physical protection elements are needed. (Detection, Delay, Response)

Day 6 – Monday (continued)

Time	Mod or Exercise	No.	Title	# of slides	Est Time Req'd	Comments
12:15 – 1:15	*Lunch*					
1:15 – 2:00	Exercise	1B	Continue Exercise 1B	n/a	45 min	
2:00 – 3:00	Module	2	Perimeter Sensor Selection	44	60 min	Present Sensor selection criteria, complimentary sensor concept, etc,
3:00 – 3:15	Break					
3:15 – 5:00	Exercise	2	Perimeter Sensor Selection	n/a	105 min	Determine what sensors can be used based on site environment conditions & characteristics, PPS requirements (complementary or not), etc. ▪ Document the choice of sensor
5:00 – 5:15			Wrap up		30 min	Discuss questions with participants. Daily feed back form

Day 7 – Tuesday, May 13

Time	Mod or Exercise	No.	Title	# of slides	Est Time Req'd	Comments
8:00 – 8:15			Review and Q&A		15 min	Review most important or confusing points. Review what we will accomplish today.
8:15 – 9:00	Module	3	Perimeter Layout Design	25	45 min	Present rules for PIDAS design: Considerations for path of perimeter, clear zone, sector lengths, width of PIDAS, sector breaks at elevation changes, corners, turns, etc.
9:00 – 10:30	Exercise	3	Perimeter Layout Design for ISSTEC	n/a	90 min	▪
10:30 – 10:45	*Break*					
10:45 – 12:00	Module	4	Perimeter Sensor Layout Design	37	75 min	Review sensor placement criteria for sensors.
12:00 – 1:00	*Lunch*					
1:00 – 1:45	Module	5 (A)	Alarm Communications and Infrastructure	31	45 min	
1:45 – 2:15	Module	5 (B)	Video Signal Transmission, Infrastructure and cable installation	19	30 min	
2:15 – 2:30	*Break*					
2:30 – 4:30	Exercise	4-5	Sensor and FJBs Placement Within PIDAS	n/a	120 min	On ISSTEC drawings locate and draw initial sensor locations. Include location of Field JBs and cable routing.
4:30 – 5:00			Wrap up		30 min	Discuss questions with participants. Daily feed back form

Day 8 – Wednesday, May 14

Time	Mod or Exercise	No.	Title	# of slides	Est Time Req'd	Comments
8:00 – 8:15			Review and Q&A		15 min	Review only most important or confusing points. Review where we are in the process, what we will accomplish today.
8:15 – 8:45	Module	6	Fiber Optic Sensor Installation		30 min	▪ Go over FO installation exercise
8:45 -12:00	Exercise	6	Fiber Optic Sensor Installation	n/a	3.25 hrs	Install Sensor, power up, verify operation
12:00 – 1:00	*Lunch*					
1:00 – 2:30	Exercise	6	Continue Fiber Optic Sensor Installation	n/a	1.5 hrs	Setup, program and test sensor
2:30 – 2:45	*Break*					
2:45 – 3:15	Module	10	ISSTEC CAS Operation Note: Module 10 and Exercise 10 moved from Friday to Wednesday		30 min	▪ Describe ISSTEC CAS block diagram and operation ▪ Include alarm communications, line supervision, etc.
3:15 – 5:00	Exercise	10	CAS Equipment and Operation	n/a	105 min	▪ Demonstrate ISSTEC AC&D operation. Include alarm generation, video assessment operation, loss of data communications, voice communications, access control. ▪ Using evaluation sheets check off items that ISSTEC CAS has. ▪ Make a list of Upgrades
5:00 – 5:15			Wrap up		15 min	Discuss questions with participants. Daily feed back form

Day 9– Thursday, May 15

Time	Mod or Exercise	No.	Title	# of slides	Est Time Req'd	Comments
8:00 – 8:15			Review and Q&A		15 min	Review most important or confusing points. Review where we are in the process, what we will accomplish today.
8:15 – 9:15	Module	7	PIDAS Video Assessment Design	29	60 min	Review camera location criteria and lighting criteria.
9:15 – 10:30	Exercise	7	PIDAS Video Assessment Design and Layout for ISSTEC	n/a	75 min	On ISSTEC drawings locate and draw in camera locations (1 camera/sector). Document camera format size, lens size and camera height based on required resolution Estimate light pole locations. (In an actual installation lighting would be based on the output of a lighting program as explained last week.)
10:30 – 10:45	Break					
10:45 – 11:30	Exercise	7	Complete Exercise 7	n/a	45 min	
11:30 – 12:00	Module	8	ISSTEC ECP Upgrade Design		30 min	▪ Review Requirements for ISSTEC ECP ▪ Go over exercise
12:00 – 1:00	Lunch					▪
1:00 – 2:45	Exercise	8	ISSTEC ECP Upgrade Design	n/a	105 min	▪ Distribute Exercise Instructions and ECP floor Plan, ▪ List specific upgrades and sketch on floor paln Detection (includes contraband and SNM) Delay, Response ▪ Entry control
2:45 – 3:00	Break					▪

Day 9– Thursday (continued)

Time	Mod or Exercise	No.	Title	# of slides	Est Time Req'd	Comments
3:00 – 3:30	Module	9	Building H Upgrade Design		30 min	▪ Review Requirements for Building H ▪ Go over exercises ▪ Focus on RMR, Vault and Truck Loading/Unloading area ▪ Consider operational, nonoperational and loading/unloading
3:30 – 5:00	Exercise	9	Building H Upgrades		90 min	▪ Distribute Exercise and Building H Flr. Pln ▪ List specific upgrades and sketch on FP ▪ Focus on RMR, Vault and Truck Loading/Unloading area ▪ Detection, Delay Response ▪ Entry Control
4:45 – 5:00			Wrap up		15 min	Discuss questions with participants.

Day 10 – Friday, May 16

Time	Mod or Exercise	No.	Title	# of slides	Est Time Req'd	Comments
8:00 – 8:15			Review and Q&A		15 min	Review most important or confusing points. Review where we are in the process, what we will accomplish today.
8:15 – 10:30	Exercise	9	Install and test sensor upgrades in RMR	n/a	135 min	▪ Install PIR and MW sensor in RMR and Vault area as designed ▪ Walk test sensors
10:30– 10:45	Break					
10:45- 11:45			Workshop Summary and Review			▪ Discussions / Questions.
11:45- 12:15	Course Feedback					▪ Students fill in feed back forms
12:15 – 12:45			Close Out Graduation			▪