LSP TEST PARAMETERS FOR TEST POINT 12E

LSP TEST Step 7.

Test Point ID	~~12P~~	12E	Ign Ver Deadband	5	Capt Int SVF Cam	~~20~~	74
Revision	~~1~~	3	IC Flame On Delta	82	Capt Int 850 Cam	~~1~~	4
Chamber Fill Press	~~587~~	561	Test Fuel Flow Rate	~~2030~~	2568	Capt Int 650 Cam	~~1~~	4
Next TP Fill Press	~~587~~	1122	PreTst Soot Bank	X	Integration Time 850	~~127~~	30
Fuel Line Fill Time	1		Test Soot Bank	~~B~~	X	Integration Time 650	~~127~~	30
Total Burn Time	170		SS Interval Time	10	SVF Start Time	~~90~~	30
Ign Delay Time	~~8~~	4	Soot #1 Res Time	200	SVF Stop Time	~~138~~	169
Ign Sequence Timeout	~~40~~	50	Soot #2 Res Time	200	ST Start Time	~~90~~	30
Ignitor Power	1147		Soot #3 Res Time	200	ST Stop Time	~~138~~	169
Ign Fuel Flow Rate	~~1638~~	1556	Soot #4 Res Time	200	Color Look Up Table	12	
Rad Flm Out Thresh	123		Pre–Burn Ref Frames	~~8~~	2	Laser Diode Off Time	~~135~~	157
Rad Flm On Thresh	410		PostBurn Ref Frames	~~8~~	2		

VCR #1	√
VCR #2	√
VCR #3	√
VCR #4	√

LSP Test Specific Information

Test Point: 12E **Fuel:** Ethylene
Nozzle Size: 0.4 mm **Pressure:** ~~1 atm~~ 0.5 atm

LSP TEST Step 37.

Crew info

CURRENT TEST POINT NOTES (Crew to read back item 3 and items changed from default):

1	Laser Adjustment:	YES	(NO)		
2	Ignition Confirmation:	YES	(NO)		
*3	Flame Height Adj:	~~YES~~	NO	(ONLY IF SMOKING)	
4	Optimal Science ~~45~~ sec 15				
5	Software Limit ~~90~~ sec 30				
6	ST Integration Adjustment:	(YES)	NO		
7	Optimal Science ~~66~~ sec 70				
8	Software Limit ~~135~~ sec 139				
9	Adjust in direction of increasing gain to first appearance of:	(RED)	YELLOW	RED & YELLOW	WHITE

10 Comments: _____

1
2
3
4
5

LSP TEST PARAMETERS FOR TEST POINT ~~13E~~ 13P

LSP TEST Step 7.

Test Point ID	13P		Ign Ver Deadband	5		Capt Int SVF Cam	~~120~~ 71
Revision	~~1~~	3	IC Flame On Delta	82		Capt Int 850 Cam	~~2~~ 4
Chamber Fill Press	~~557~~	1122	Test Fuel Flow Rate	~~1064~~	2035	Capt Int 650 Cam	~~2~~ 4
Next TP Fill Press	~~1114~~	561	PreTst Soot Bank	X		Integration Time 850	~~127~~ 30
Fuel Line Fill Time	1		Test Soot Bank	~~X~~	B	Integration Time 650	~~127~~ 30
Total Burn Time	255		SS Interval Time	10		SVF Start Time	~~30~~ 90
Ign Delay Time	~~8~~	16	Soot #1 Res Time	200		SVF Stop Time	~~254~~ 223
Ign Sequence Timeout	~~40~~	50	Soot #2 Res Time	200		ST Start Time	~~30~~ 90
Ignitor Power	1147		Soot #3 Res Time	200		ST Stop Time	~~254~~ 223
Ign Fuel Flow Rate	~~1638~~	1556	Soot #4 Res Time	200		Color Look Up Table	12
Rad Flm Out Thresh	123		Pre-Burn Ref Frames	~~5~~	2	Laser Diode Off Time	~~234~~ 211
Rad Flm On Thresh	410		PostBurn Ref Frames	~~5~~	2		

VCR #1	√
VCR #2	✓
VCR #3	✓
VCR #4	√

LSP Test Specific Information

Test Point: ~~13E~~ 13P **Fuel:** ~~Ethylene~~ Propane
Nozzle Size: 0.4 mm **Pressure:** ~~0.5 atm~~ 1.0 Atm

LSP TEST Step 37.

Crew info

CURRENT TEST POINT NOTES (Crew to read back item 3 and items changed from default):

1	Laser Adjustment:	YES	(NO)		
2	Ignition Confirmation:	YES	(NO)		
*3	Flame Height Adj:	(YES)	NO	ONLY IF SMOKING	
4	Optimal Science 45 sec				
5	Software Limit 90 sec				
6	ST Integration Adjustment:	(YES)	NO		
7	Optimal Science ~~24~~ 65 sec				
8	Software Limit ~~48~~ 133 sec				
9	Adjust in direction of increasing gain to first appearance of:	(RED)	YELLOW	RED & YELLOW	WHITE

10 Comments: _____

1
2
3
4

LSP TEST PARAMETERS FOR TEST POINT 14P

LSP TEST Step 7.

Test Point ID	~~14E~~	14P	Ign Ver Deadband	5	Capt Int SVF Cam	~~90~~	74
Revision	~~1~~	3	IC Flame On Delta	82	Capt Int 850 Cam	~~1~~	4
Chamber Fill Press	~~1114~~	561	Test Fuel Flow Rate	~~2094~~	2381	Capt Int 650 Cam	~~1~~ 4
Next TP Fill Press	~~1114~~	1122	PreTst Soot Bank	~~P~~	X	Integration Time 850	~~127~~ 30
Fuel Line Fill Time	1		Test Soot Bank	~~A~~	X	Integration Time 650	~~127~~ 30
Total Burn Time	~~258~~	170	SS Interval Time	10		SVF Start Time	90 30
Ign Delay Time	8		Soot #1 Res Time	200		SVF Stop Time	223 169
Ign Sequence Timeout	~~40~~	50	Soot #2 Res Time	200		ST Start Time	90 30
Ignitor Power	1147		Soot #3 Res Time	200		ST Stop Time	223 169
Ign Fuel Flow Rate	~~1638~~	1556	Soot #4 Res Time	200		Color Look Up Table	12
Rad Flm Out Thresh	123		Pre–Burn Ref Frames	~~5~~	2	Laser Diode Off Time	~~208~~ 157
Rad Flm On Thresh	410		PostBurn Ref Frames	~~5~~	2		

VCR #1	√	
VCR #2	.	√
VCR #3		√
VCR #4	√	

LSP Test Specific Information

Test Point: 14P **Fuel:** Propane
Nozzle Size: 0.4 mm **Pressure:** ~~1 atm~~ 0.5 Atm.

LSP TEST Step 37.

Crew info

CURRENT TEST POINT NOTES (Crew to read back item 3 and items changed from default):

1	Laser Adjustment:	YES	(NO)		
2	Ignition Confirmation:	YES	(NO)		
*3	Flame Height Adj:	~~YES~~	NO	(ONLY IF SMOKING)	
4	Optimal Science ~~45~~ sec 15				
5	Software Limit ~~60~~ sec 30				
6	ST Integration Adjustment:	(YES)	NO		
7	Optimal Science ~~66~~ sec 70				
8	Software Limit ~~135~~ sec 139				
9	Adjust in direction of increasing gain to first appearance of:	(RED)	YELLOW	RED & YELLOW	WHITE
10	Comments:				

1
2
3
4

LSP TEST PARAMETERS FOR TEST POINT ~~15P~~ 15E

LSP TEST Step 7.

Test Point ID	~~15P~~ 15E	Ign Ver Deadband	5	Capt Int SVF Cam	~~80~~ 120
Revision	~~1~~ 3	IC Flame On Delta	82	Capt Int 850 Cam	~~1~~ 6
Chamber Fill Press	~~1114~~ 1122	Test Fuel Flow Rate	~~2030~~ 1076	Capt Int 650 Cam	~~1~~ 6
Next TP Fill Press	~~1114~~ 1122	PreTst Soot Bank	X	Integration Time 850	~~127~~ 30
Fuel Line Fill Time	1	Test Soot Bank	~~B~~ X	Integration Time 650	~~127~~ 30
Total Burn Time	255	SS Interval Time	10	SVF Start Time	~~90~~ 30
Ign Delay Time	~~16~~ 8	Soot #1 Res Time	200	SVF Stop Time	~~223~~ 254
Ign Sequence Timeout	~~40~~ 50	Soot #2 Res Time	200	ST Start Time	~~90~~ 30
Ignitor Power	1147	Soot #3 Res Time	200	ST Stop Time	~~223~~ 254
Ign Fuel Flow Rate	~~1636~~ 1000	Soot #4 Res Time	200	Color Look Up Table	12
Rad Flm Out Thresh	123	Pre–Burn Ref Frames	~~8~~ 2	Laser Diode Off Time	~~210~~ 234
Rad Flm On Thresh	410	PostBurn Ref Frames	~~8~~ 2		

VCR #1	√
VCR #2	√
VCR #3	√
VCR #4	√

LSP Test Specific Information

Test Point: ~~15P~~ 15E **Fuel:** ~~Propane~~ Ethylene
Nozzle Size: 0.4 mm **Pressure:** ~~0.5 atm~~ 1.0 atm

LSP TEST Step 37.

Crew info

CURRENT TEST POINT NOTES (Crew to read back item 3 and items changed from default):

1	Laser Adjustment:	YES	(NO)	
2	Ignition Confirmation:	YES	(NO)	
*3	Flame Height Adj:	~~YES~~	(NO)	ONLY IF SMOKING
4	Optimal Science ~~45~~ sec 15			
5	Software Limit ~~90~~ sec 30			
6	ST Integration Adjustment:	(YES)	NO	
7	Optimal Science ~~24~~ sec 110			
8	Software Limit ~~46~~ sec 224			
9	Adjust in direction of increasing gain to first appearance of:	(RED)	YELLOW	RED & YELLOW / WHITE
10	Comments:			

1