

QUALITY ASSURANCE DEPARTMENT

STANDARD OPERATING PROCEDURE FOR HMI OF WALKIN STABILITY CHAMBER

STANDARD OPERATING PROCEDURE FOR HMI OF WALK IN STABILITY CHAMBER



QUALITY ASSURANCE DEPARTMENT

STANDARD OPERATING PROCEDURE FOR HMI OF WALKIN STABILITY CHAMBER

DISPLAY DEVICE OF SYSTEM:

Objective: To verify that operation of system components and devices of chamber is as per specified in the design documents specification.



Remarks:							
Meet the Acceptance Criteria	[] Yes			[] No	
Tested by :			Date	:			
Verified by :			Date	:			





VERIFICATION OF OPERATION OF DISPLAY DEVICE OF SYSTEM:

Objective: To verify that operation of display device of chamber is as per specified in the design documents and functional specification.

STABILITY CHAMBER M	ONDAY dd/mm/yy HH:MM:SS
TEMPERATURE 'C	HUMIDITY % rH
[™] 123.4	[™] 123.4
sv 1234.5	sv 1234.5
Stablization Timer START PROCERUM	
DH CO 2 BH 2 ACK ALARM MENU	MAIN POWER FAILURE

Remarks:							
Meet the Acceptance Criteria	[] Yes			[] No	
Tested by :		D	ate	:			
Verified by ·		D	ate	•			



QUALITY ASSURANCE DEPARTMENT

STANDARD OPERATING PROCEDURE FOR HMI OF WALKIN STABILITY CHAMBER

VERIFICATION OF OPERATION OF SCREEN SETTING OF SYSTEM:

Objective: To verify that operation of screen setting of chamber is as per specified in the design documents and functional specification.

STABILITY CHAP	MBER SAT	URDAY 19/1	0/2019 10:37:17
COMPRESSOR	PRINTER SETUP	BOILER SETUP	PLC FACTORY SETTINGS
	<u>.</u>		18
LOGIN SETUP	ALARM DATA	DATA LOG	RTC & SYSTEM SET UP
	I/O STA	TUS	SCANNER

Remarks:							 -
Meet the Acceptance Criteria	[] Yes			[] No	-
Tested by :		Γ	Date	:			
Verified by :		Γ	Date	:			



QUALITY ASSURANCE DEPARTMENT

STANDARD OPERATING PROCEDURE FOR HMI OF WALKIN STABILITY CHAMBER

VERIFICATION OF OPERATION OF COMPRESSOR CHANGE OVER OF SYSTEM:

Objective: To verify that operation of Compressor Change Over System of chamber is as per specified in the design documents and functional specification.

COMPRESSOR SETUP (AUTO MODE)						
AUTO MODE	COMP 1	COMP	2	TEMP	HIGH	2.0
ENABLED)	TEMP	LOW	2.0
MON.	TUE.	WED.	THR.	FRI.	SAT.	SUN.
COMP. 1 ((3)	(3)	(3)	
сомр. 2	3	(3)	②	②	②	
COMPRESSO STATUS	R C	OMP. 1	о.к.	CON	ИР. 2 O	.K.
MENU						NUAL ODE

Remarks:							
Meet the Acceptance Criteria	[] Yes			[] No	
Tested by :			Date	:			
Verified by :			Date	:			





VERIFICATION OF OPERATION OF COMPRESSOR REPAIR & MANUAL MODE SYSTEM:

Objective: To verify that operation of Compressor Repair & Manual Mode System of chamber is as per specified in the design documents and functional specification.

		COMPRE	SSOR MA	ANUAL M	ODE	
	DISABLE COMPRESS		MP 1	DISA COMPRE		COMP 2
			DISAB MANUAL I			
<< I V	MAIN		SETTING	iS>>		< <auto MODE</auto

Remarks:							
Meet the Acceptance Criteria	[] Yes			[] No	
Tested by :			Date	:			
Verified by :			Date	:			





QUALITY ASSURANCE DEPARTMENT

STANDARD OPERATING PROCEDURE FOR HMI OF WALKIN STABILITY CHAMBER

VERIFICATION OF OPERATION OF BOILER HEATER CHANGE OVER SYSTEM:

Objective: To verify that operation of Boiler Heater Change Over System of chamber is as per specified in the design documents and functional specification.

	BOILER SETUR	AUTO I	MODE)
AUTO MODE ENABLED	HEATER 1	HEATER 2	
HUMI.HIGH	5.0		
HUMI. LOW	5.0		
HEATER STA	TUS HEA	ATER 1 OK	HEATER 2 OK
ВАСК			MANUAL MODE

Remarks:						
Meet the Acceptance Criteria	[] Yes		[] No	
Tested by :		Da	te :			-
Verified by :		Da	te :			_





VERIFICATION OF OPERATION OF BOILER HEAT MANUAL MODE OF CHAMBER SYSTEM:

Objective: To verify that operation of Boiler Heat Manual Mode of chamber is as per specified in the design documents and functional specification.

BOILER	SETUP (MANUAL MODE)	
DISABLE HEATER 1	HEAT 1 DISABLE HEATER 2 DISABLE MANUAL HEATER	HEAT 2
MENU		AUTO MODE

Remarks:							
Meet the Acceptance Criteria	[] Yes			[] No	
Tested by :		Γ	Date	:			
Verified by :		D	Date	:			





VERIFICATION OF OPERATION OF SYSTEM STATUS O/P OF CHAMBER SYSTEM:

Objective: To verify that operation of System Status O/P of chamber is as per specified in the design documents and functional specification.

		Machine Inpu	ts Status		
TEMPERATURE TERMOSTATE	ОК	DOOR	OPEN	MAIN SUPPLY	OFF
REGULAR BOILER THERMOSTATE	ОК	REGULAR BOILER WATER LEVEL	LOW		
STANDBY BOILER THERMOSTATE	ок	STANDBY BOILER WATER LEVEL	LOW		
	N	Machine Outp	uts Status		
REGULAR COMPRESSOR	OFF	REGULAR BOILER	OFF	AIR HEATER	OFF
STANDBY COMPRESSOR	OFF	STANDBY BOILER	OFF	BLOWER	OFF
LIGHT	OFF	BUZZER	OFF		BACK

Remarks:						
Meet the Acceptance Criteria	[] Yes		[] No	
Tested by :		Dat	te :			
Verified by :		Dat	te :			





VERIFICATION OF OPERATION OF BOILER HEATER CONTROLLER SETTING SYSTEM:

Objective: To verify that operation of Boiler Heater Setting System of chamber is as per specified in the design documents and functional specification.

	BOILER HEATER CONTROLLER SETTINGS							
Sensor Type	0V~5V	Temperature Unit	% rH					
Control Method	PID	Auto Tuning	OFF					
Outputs 1	Heat	Outputs 2	Alarm					
Upper Limit	150.0	Lower Limit	0.0					
Proportional Band	47.6	Integral Time	260					
Derivative Time	41	Humidity Offset	0.0					
		Control Cycle	0					
ВАСК								

Remarks:							_
Meet the Acceptance Criteria	[] Yes		[] No		_
Tested by :		Da	te :_			_	
Verified by :		Da	te :_				





VERIFICATION OF OPERATION OF AIR HEATER CONTROLLER SETTING SYSTEM:

Objective: To verify that operation of Air Heater Controller Setting System of chamber is as per specified in the design documents and functional specification.

	AIR HEATER CONTROLLER SETTINGS							
Sensor Type	Pt100	Temperature Unit	Fahrenheit					
Control Method	PID	Auto Tuning	OFF					
Outputs 1	Heat	Outputs 2	Alarm					
Upper Limit	60.0	Lower Limit	0.0					
Proportional Band	47.6	Integral Time	260					
Derivative Time	41	Temperature Offset	0.0					
		Control Cycle	4					
BACK								

Remarks:							
Meet the Acceptance Criteria	[] Yes			[] No	
Tested by :			Date	:			
Verified by :			Date	:			



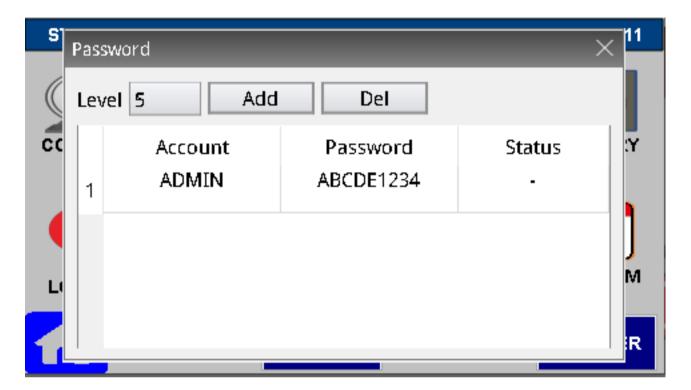


QUALITY ASSURANCE DEPARTMENT

STANDARD OPERATING PROCEDURE FOR HMI OF WALKIN STABILITY CHAMBER

VERIFICATION OF OPERATION OF USER LOGIN CONTROLLER SETTING SYSTEM:

Objective: To verify that operation of user login Controller Setting System of chamber is as per specified in the design documents and functional specification.



Remarks:								
Meet the Acceptance Criteria	[] Yes			[] No		
Tested by :]	Date	:			-	
Verified by :]	Date	:				





QUALITY ASSURANCE DEPARTMENT

STANDARD OPERATING PROCEDURE FOR HMI OF WALKIN STABILITY CHAMBER

VERIFICATION OF OPERATION HISTORY OF TEMPERATURE & HUMIDITY DATA TABLE:

Objective: To verify that operation history of temperature & humidity data table as per specified in the design documents and functional specification.

	HI	STORY TEM	IP. & HUMID. D	DATA TABL	.E	
No.	TIME	DATE	S.V. Tem	р. Т СН	-1 T CH-2	7.5
						-
MEN	U	CLEAR Data	INTERVAL (Minute)	5	TRANSI TO US	

Remarks:								
Meet the Acceptance Criteria	[] Yes			[] No		
Tested by :			Date	:			_	
Verified by :			Date	:			_	





VERIFICATION OF OPERATION OF CHAMBER ALARM TABLE SETTING:

Objective: To verify that operation of chamber alarm table Setting System of chamber is as per specified in the design documents and functional specification.

СНА	MBER ALARMS	S TABLE	
0000 hh:mm dd.mm.yy		3 TADLE	
< <main remove="" th="" usb<=""><th>EXPORT TO USB</th><th>CLEAR ALARMS</th><th>SETTINGS>></th></main>	EXPORT TO USB	CLEAR ALARMS	SETTINGS>>
Remarks:			
Meet the Acceptance Criteria	[] Yes	[] No
Tested by :	Dat	te :	

Verified by : _____





VERIFICATION OF OPERATION OF SYSTEM SETTING:

Objective: To verify that operation of System Setting of chamber is as per specified in the design documents and functional specification.

	SYSTEM SETTINGS
POWER RESUME DELAY TIME (Sec.) ####	DOOR OPEN DELAY TIME (Sec.) ####
Remarks:	
Meet the Acceptance Criteria [[] Yes [] No
Tested by :	
Varified by	Data ·





VERIFICATION OF OPERATION OF CHAMBER PRINTER SETTING IN SYSTEM:

Objective: To verify that operation of chamber printer Setting System of chamber is as per specified in the design documents and functional specification.

PRINTER SETTINGS										
From Data No.	To Data No.	Header Lin	ie 1	Equipment ID. No.						
¥	#									
	Company Na	me	Equip	ment Make						
Equipment Name Header Line 2										
		PRESS TO		PRESS TO						
BACK		START ONLINE PRINTING		PRINT STORED DATA						

Remarks:								
Meet the Acceptance Criteria	[] Yes			[] No		
Tested by :		D	ate	:			_	
Verified by :		D	ate	:				