

UGEE CHEMICALS PSG Department

EVE SOLEL

SOPStandard Operating Procedure

PURPOSE

- To define a standard procedure for operating buggy floor management system to prevent product mispack on PSG production floor and to keep an adequate inventory of good quality FP and off spec. product buggies on buggy floor.

SCOPE

- This SOP covers all the process of production in buggy floor operation as it is a buffering stage between making and packing operations. It covers the responsibilities of buggy floor team leaders, control room operators, line operators, shift E&Is, MSG team leaders, PSG shift QA leaders and PSG team leaders towards achieving its mentioned purpose.

RESPONSIBILITY

- Control Room Operator: Responsible for switching on BFMS server at every start of operation. At
 resumption of his shift, he confirms on the BFMS server that BFMS service is running and changes
 operator and shift information on BFMS page of control room SCADA. He also confirms that only one
 BFMS server is switched on at a time during operation.
- **MSG Team Leader:** Responsible for checking once every hour that density data is being updated by buggy floor team leader and printed buggy labels are pasted on buggies.
- **PSG Team Leader:** Responsible for initiating packing changeover per line on BFMS before starting changeover on the line. He conducts BFMS start up and shut down checks following checklists. He is also responsible for switching off BFMS server.
- PSG Shift QA Leader: Provides start up and shut down checklist to PSG team leader and collects filled checklist as part of BPR document.
- **Buggy Floor Team Leader:** Responsible for collecting finished product from buggy filling station (BFS) with only buggies that are OK as indicated by the BFS display. He enters buggy density in BFMS buggy inventory page on client computer after the buggy leaves BFS, and also paste label accordingly on the buggy. He also coordinates loading and dumping of buggies by buggy floor operators.
- Buggy Floor Operator: Responsible for loading and dumping of buggies.
- **E&I:** Responsible for timely fixing of BFMS alarms to root cause.
- PSG Line Operator: conducts analysis for BFMS alarms in his area.

SOP OWNER

QA APPROVAL

HS&E APPROVAL

AUTHORISATION

Atobajajye 'Segun

Date: 2802 202

Date:

 PSG PC&IS Leader: Responsible for ownership and provision of various access privileges for BFMS service. He also adds GCAS number of new formulations to BFMS.

POTENTIAL RISKS

- NA

PPE REQUIRED

- NA

PROCEDURE

AT START UP

- 1. Control room operator starts main BFMS server. By doing this, BFMS picks current MSG brand. If he changes over afterwards, BFMS will be updated automatically.
- 2. PSG team leader will, at every start up, conduct BFMS start up checks following checklist and confirms that loading, reblend and dumping spots are on auto mode.
- 3. PSG team leader will, at every changeover, go to BFMS client and login with his access. He will make changeover for various packing lines based on production plan from SAP.
- 4. PSG team leader initiates changeover for all packing lines as planned on SAP.

AT SHIFT HANDOVER

- 5. The incoming shift control room operator logs into BFMS application to confirm that BFMS service is still running.
- 6. The incoming shift control room operator will open BFMS page of control room SCADA and change all the shift and operator information accordingly.
- 7. PSG team leader will confirm that loading, reblend and dumping spots are on auto mode.

DURING NORMAL OPERATION

AT THE LOADING SPOT

- 8. Buggy floor team leader will, at every mixer batch, move a buggy to BFS. He will check that the LED display on BFS indicates "OK BUGGY" before opening the BFS valve to load product into buggy.
- 9. In case the display indicates an error, he will remove the buggy from BFS loading spot and reset the alarm on BFMS client application. If he tries using the buggy again and error persist, then he needs to park the buggy and use another buggy.
- 10. If the LED display indicates "OK BUGGY", he goes ahead and fill the buggy with product and collect the sample for density.
- 11. Once the buggy is filled, he will remove it from BFS. While the buggy is being removed from BFS, the BFMS application will automatically update the buggy in historical buggy page with all information correct except for finished product density.
- 12. The buggy floor team leader will update the finished product density in buggy inventory page of BFMS application before moving the next buggy to be filled into BFS loading spot as the buggy label card for a previous buggy will be printed automatically as soon as the next buggy enters into BFS loading spot.

- 13. The buggy floor team leader will paste the buggy label card on the buggy while in storage before moving it to dumping spot of packing lines.
- 14. The buggy floor team leader will label and report any empty buggy that was not used due to persistent BFS load spot alarm to PSG team leader.
- 15. PSG team leader engages shift E&I in fixing the alarm to root cause.
- 16. PSG team leader informs PSG PC&IS leader any alarm that could not be fixed by operating team.
- 17. PSG team leader will raise deviation to run on manual mode for certain period if the alarm could not be fixed immediately.
- 18. PSG team leader will only change to manual mode if the deviation is approved by QA manager.
- 19. MSG team leader will go to buggy floor once every hour to confirm that buggy operation is in line with this SOP.

AT THE DUMPING SPOT

- 20. Buggy floor team leader will monitor dumping spot low level alarm from BFMS client and status lights on packing lines
- 21. In case of a low-level alarm at a dumping spot, buggy floor operators will remove the empty buggy from that dumping spot and replace it with a full buggy.
- 22. Before opening the buggy at a dumping spot, the buggy floor operators will check the line LED display for error.
- 23. If the line LED display indicates "OK BUGGY", the buggy floor operators will open the buggy to fill that dumping spot.
- 24. If the line LED display indicates an alarm for the dumping spot, the buggy floor operators will remove the buggy, reset the alarm on BFMS client before placing another buggy.
- 25. The buggy floor team leader will label and report the buggy that gives alarm at the dumping spot to PSG team leader.
- 26. PSG line operator will analyse and fix alarms relating to his area.
- 27. PSG team leader informs PSG PC&IS leader any alarm that could not be fixed by operating team.
- 28. PSG team leader will raise deviation to run on manual mode for certain period if the alarm could not be fixed immediately.
- 29. PSG team leader will only change to manual mode if the deviation is approved by QA manager.

AT REBLEND SPOT

- 30. MSG team leader engages his shift E&I in fixing alarms relating to reblend spot.
- 31. MSG team leader informs PSG PC&IS leader any alarm that could not be fixed by operating teams.

AT PACKING CHANGEOVER

32. PSG team leader will initiate the changeover based on SAP plan.

BFMS Reader Functionality Test

This test is to be carried out bi-annually for loading, reblend and dumping spots during normal operation.

- (a) Open overview page on BFMS client PC. Confirm that buggy number displayed on the overview page for loading, reblend and dumping spots match what is on the lines. Test passes when buggy numbers captured by BFMS match the buggy number on the lines.
- (b) Check that BFMS overview page does not display buggy number when buggy is not physically present on loading, reblend and any dumping spots. Test passes when BFMS does not display buggy number for loading, reblend and dumping spots with no physical buggy.
- (c) Check that buggy number is not missing on BFMS overview page for loading, reblend and dumping spots that have physical buggy placed on them. Test passes when buggy numbers captured by BFMS match the buggy number on the lines.

Note: In all cases, follow troubleshooting guide to fix any observed issue(s). Test must be done for each of the active dumping spots on packing UVA and Multilane lines. Reblend spot is at MSG level 24.

AT SHUT DOWN

- 33. PSG team leader confirms that making operation has stopped and then goes ahead to shut down BFMS server following BFMS shut down checklist.
- 34. PSG team leader gives filled shut down checklist to PSG shift QA leader as part of BPR document.

REASON FOR UPDATE: New SOP

END OF PROCEDURE

SOP RELATED ATTACHMENTS

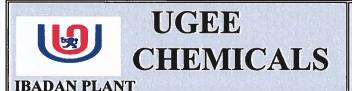
ATTACHMENT 1 - SOP Qualification

ATTACHMENT 2- SOP Model Answers

ATTACHMENT 3- Reader functionality test checklist

ATTACHMENT 4- Start up and shut down checklist

ATTACHMENT 5 - BFMS server set up guide (how to switch from main server to backup server and vice versa)



PSG Department

БОССТТ			Qualification She	et OPERATION
Trainee Name:			Trainer Name:	
Training Date:			Qualifier Name:	
Question # 1: What	is the purpose	e of this SOP	?	
enable product misp FP and off spec. pro	ack on PSG pro duct buggies or	duction floor and buggy floor.	and to keep an adequ	or management system to late inventory of good quality
	duction floor an			ent system to prevent product good quality FP and off spec.
Question # 2: How	many BFMS se	erver should	be switched on at a	time during operation?
Answer # 2:	(A) One	(B) Two)	
Question # 3: who filled checklist as p			down checklist to P\$	SG team leader and collects
Answer # 3: (A) MSC	6 team leader (E	B) PSG shift C	A leader (C) PSG P	C&IS leader
Question # 4: PSG initiating changeov			l to stop loading an	d dumping operation before
Answer # 4:	(A) True	(B	3) False	;
Question # 5: Who	conducts anal	ysis for BFM:	S alarms in his area	?
Answer # 5: (A) PSG	line operator ((B) Shift E&I(C) Team leader (D) S	Satlab operator
Question # 6: MSG	team leader ch	necks that bu	ggy operation is in l	ine with this SOP every
Answer # 6: (A) Two	hours (B) on	e hour (C) 3	0 minutes (D) 20 mi	nutes
Question # 7: Wha	t is the full mea	aning of BFM	S?	
			(B) Buggy Floor Mar	nagement System
SOP OWNER Atobajaiye 'Segur		PEROVAL de Diujide	Adebiyi Adedoyin Date: 28 -02-322	Oguntinde Adebayo



PSG Department

BUGGY FLOOR MANAGEMENT SYSTEM OPERATION Training & Qualification Sheet

Question #8: The buggy floor operator should not open buggy on a dumping spot while an alarm is displayed for the dumping spot. (B) False Answer # 8: (A) True Question # 9: Buggy team leader can open buggy without label at dumping spot Answer # 9: (A) True (B) False Question # 10: All loading and dumping spots alarms will be reported to PSG team leader. Answer # 10: (A) True (B) False The person is considered passed if he scores 100 % in the above test. Training Results: ______ (tick as appropriate) Succeeded: Qualifier 's Sign/Date: Fill if re-qualification is needed: Date of re-qualification: HS&E APPROVAL SOP OWNER QA APPROVAL Adebiyi Adedoyin Ogunringe Adebayo Alawode Olujide Atobajalye '\$egun Date: 28-02 - 2022



BFMS READER FUNCTIONALITY TEST CHECKLIST

SOP No. UCL/IBDPSG/CD/Q/14.0 Page 9 of 11

Checked by (name& sign):		Team:	Date:	Shift:
Steps	Time (min)	Status (OK/NOT OK)	Action if status is not ok	Comment
			Start BFMS	
Place any buggy on load spot. Buggy number of buggy on load spot				
matches what is on BFM LS1 section of overview page	2		Follow TSG	
Place any buggy on reblend spot at level 24. Buggy number of buggy on				
reblend spot matches what is on BFM Reblend section of overview page	10		Follow TSG	
Place any buggy on each dump spot(A,B,C,D,E,F,G,H,RST,UVW,IJK &LMN).				
Buggy number of buggy on each dump spot matches what is on each				
dump spot section of overview page	10		Follow TSG	
Remove buggy from load spot. Load spot must not display any buggy				
number on BFM LS1 section of overview page	2		Follow TSG	
Remove buggy from reblend spot at level 24. Reblend spot must not			7-1	
display buggy number on BFM reblend spot section of overview page	10		Follow I SG	
Remove buggy from all dump spots (A,B,C,D,E,F,G,H,RST,UVW,IJK &LMN.				
No dump spot must display buggy number on BFM dump spots section of				
overview page	10		Follow TSG	
Total time	45			
Note: Success criteria is; (1)BFM application must display right buggy number for load, reblend	mber for	load, reblend a	and dump spots with physical buggy present	uggy present
(2) BFM must not display buggy number for load, reblend and dump spot when buggy is not physically present there	blend an	d dump spot wh	en buggy is not physically pres	ent there
Reblend spot is at MSG level 24				
Additional comment				

SOP OWNER

Atobajaiye (Segun

Date: 28 13 2 572

QA ABPROVAL

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Date: 0 0 - 1 - 1 - 2

HS&E APPROVAL

AUTHORISATION

Summide Adebayo

Date: 78 91 791

ATTACHMENT 4

	ATTACHMENT 4					
	BFMS START UP/SHUT DOWN CHECKLIST	CKLIST		SOP No. UCL/I	SOP No. UCL/IBDPSG/CD/Q/14.0 Page 10 of 11	10 of 11
Check	Checked by (name& sign):		Team:	Date:	Shift:	
		START UP	JP			
s/N	Steps	Time (min)	Status (Yes/No)	Action if status is NO		Comment
₩.	The UPS panel at MSG MCC room has been powered	1		Switch ON UPS panel SDS	SQ	
7	UPS at MSG MCC room is powered and loaded	1		Switch ON UPS		
٣	BFMS server power sockets are turned on	1		Switch ON BFMS power sockets	ockets	
4	BFMS PLC and server are switched on	1		Start up BFMS PLC and server	erver	
S	BFMS service status in RUN mode	1		Launch BFMS application and start service	tart service	
	LAN cables lights for BFMS server cisco switch are ON and greenish for					
ď				(*) spinor moldow is SZT wolld?	blom poreint!	
р —	server is used and BFM PLC/MSG stratix switches LAN ports are ON and			insert the cable (1010w 130 in picture)	heisiad iii	
	greenish for those with LAN cables	2	3			
'	Control panels SDS and RFID readers are ON for LS1, LP1012, L1, L2 and					
`	L4A&B	4		Switch on panel (follow TSG if problem persist)	blem persist)	
∞	Ready to work indicator is ON and stable for each of LS1, L1, L2 and			Switch off reader and restart after one minute and then	minute and then	
	L4A&B RFID readers	4		stop and restart service (follow TSG if problem persist)	problem persist)	
6	Stratix switch LAN ports are ON for LS1, LP1012, L1, L2 & L4A&B	4		Insert LAN cable (follow TSG if problem persist)	blem persist)	
5	Alarms on LS1, L1, L2 & L4 dump spots on BFMS application have been					
₹ _	cleared	1		Follow TSG if problem persist	rsist	20000000
	Total	20				
	SHUT DOWN	z				
s/N	TASK	Time (min)	Status (Yes/No)	Action if status is NO		Comment
н	BFMS server has been shut down	3		Shut down BFMS server	er	
7	Sockets for servers and stratix switches have been switched off	IJ		Switch off sockets		
ო	UPS at MSG MCC room has been shut down	1		Shut down UPS	\ \ \	
4	UPS panel at MSG MCC room has been switched off	1		Switch off UPS panel SDS	SO	
	Total	9		•		
	Atobajaye (segun	HS& HS&	HS&EAPPROVAL Adebixi Adedoxin	Paningo Con	RISATION 19 Adebaye	
	X to the total tot	Cara	000	- Caro	1	



STEPS TO SETTING UP BEMS SERVER

S/N	ACTION	TIME(SE
	AT MCC ROOM (SERVER ROOM)	<u> </u>
1	Check that two power cords are connected to the server	30
	Check that three LAN cables are connected from the server to cisco switch. For main	
	server, LAN cables must be on cisco switch port 6, 7 & 8 and for back up server LAN	9
	cables must be on cisco switch port 2, 14 & 19. Note port 4 on cisco switch is for	
2	connection to BFM PLC stratix switch.	30
3	Switch on power to the server from UPS/socket	30
4	Start the server by pressing the start push botton on the server	180
792 -	When the server finished booting, ping the reader, point I/O, stratix switch, display and	
	printer to be sure there is communication. IP address to ping are:	
	192.168.104.73 (load spot reader),	
	192.168.103.64 (load spot point I/O),	
	192.168.104.217(stratix switch for panel LP1012),	
	192.168.105.64 (load spot display),	
	192.168.104.15(printer),	
	192.168.104.50 (L1 reader),	
	192.168.104.52 (L2 reader),	
	192.168.104.56 (L4A reader),	Ì
5	192.168.104.57 (L4B reader)	360
6	Login to BFMS service and stop the service	60
7	Log out and go to buggy floor	180
	AT BUGGY FLOOR	
	Change the .ini file on buggy floor PC to reflect the server you are switching to. The	
	essence of this is to establish communication between buggy floor PC and server. To	
	change .ini file go to computer/C drive/program Files (x86)/BFMS/BFMS.ini. Replace the	
	BFMS.ini file with that of the server you are switching to. DO NOT ALTER INSTRUCTION	
	ON THE FILE. JUST DELETE THE ONE YOU MET THERE AND COPY &PASTE THE ONE YOU	
	NEED. To copy the .ini file, go to computer/C drive/users/public/public	
	documents/BFMS backup server (or BFMS main server). Open the folder named BFMS	
	backup server and copy the .ini file named BFMS if you are switching to backup server.	
	Open the folder named BFMS main server and copy the .ini file named BFMS if you are	
8	switching to main server.	360
9	Login to BFMS service and click on program settings	180
	Click server tab and select the correct server name (you can also type the server name).	100
	Main server name is IBA-BFM-SVR-01 and	
10	Back up server name is 192.168.104.58	180
10	340K up 361461 Hume is 132.100.104.30	100
11	Click Test SQL Connection (the response must be SQL Server Connection Test Succeded)	120
12	Select English as language, click apply tab and then Accept tab.	30
13	Start BFMS service. The server is now ready for use.	60
	Total Time(30Mins)	1800 Se

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