MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION -CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

Secure PAB Vent Fans and Prepare for Single Train Operation 3.6.

NOTE: While performing the next step, the following fans will trip if running:

- W-30A or B, Auxiliary Building Filter Fan
- W-27A or B, Health Physics Exhaust Fan
- W-32, PAB Exhaust Fan
- W-35, PAB Supply Fan
- W-23, Service Building AC Fan
- W-29, Service Building AC Fan

NOTE: While performing the next two steps, Annunciator window B-4-10 "Control Room A/C Units Air Flow Low" will alarm.

3:6.1. Secure Aux Building Stack Ventilation Fans W-21A and W-21B and Aux Bldg Filter Fans W-30A and W-30B in accordance with OI-39 (by stopping the running W-21 fan) and hang the required Danger Tags in accordance with OI 39 while continuing with this procedure.

Record Tag Series Hung: 480 In OI-1284 E-FN (01-39)

NOTE: When performing the next step, if W-21B is not running, the running W-30 fan will trip when sliders TMK-1 and 2 are opened (ref 499B466 Sh. 810 & 583A/B).

3.6.2. Hang the following Danger Tags that were prepared in step 2.7.6:

Equipment	<u>Description</u>	Position
Slider TMK-1 (Riser 5-1C04)	PAB Stack Fans Aux Relay W-21X	OPEN
Slider TMK-2 (Riser 5-1C04)	PAB Stack Fans Aux Relay W-21X	OPEN

Record Tag Series Hung: / 4800 Inf OHI28 #E-FN (L-21X) En

7/8/

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

3.6.3. Hang ONLY the following Caution Tags that were prepared in step 2.7.7:

Equipment	Description	Position - Tag Text
W-21A-CS	PAB Exhaust Stack Fan W-21A Control Switch (1C04)	PULL OUT per IWP 01-128
W-30A-CS	W-30A PAB Exhaust Filter Fan Control Switch (1C-04)	(DAMPER GAGGED) PULL OUT per IWP 01-128 (DAMPER GAGGED)

Record Tag Series Hung: 1 4800 In CI-128 HE-FN (W-21A) Cart Rust

NOTE: When the next step is performed, position indication will be lost for damper VNPAB-3248, and the damper will fail open.

3.6.4. At MCC 1B42, ensure that W-21A breaker 1B52-4211M is OFF.

OPS/EM

3.6.5. At MCC 1B42, remove the 1B52-4211M control power fuse, bag it, label the bag "Do not reinstall until directed to in IWP 01-128*E-FN" and tape the bag securely to the inside wall of the MCC Bucket.

OPS/EM

3.6.6. Place a PBNP Maintenance Work Site Sign (PBF-9181) on the outside of the 1B52-4211M door.

EM

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

NOTE: When the next step is performed, position indication will be lost for damper VNPAB-3265, and the damper will fail open.

3.6.7. At MCC 1B42, ensure that W-30A breaker 1B52-4212M is OFF.

OPS/EM

3.6.8. At MCC 1B42, remove the 1B52-4212M control power fuse, bag it, label the bag "Do not reinstall until directed to in IWP 01-128*E-FN" and tape the bag securely to the inside wall of the MCC Bucket.

OPS/EM

3.6.9. Place a PBNP Maintenance Work Site Sign (PBF-9181) on the outside of the 1B52-4212M door.

EM

al

NOTE: When the next step is performed, position indication will be lost for damper VNPAB-3266, and the damper will fail open.

3.6.10. At MCC 2B32, ensure that W-30B breaker 2B52-3213M is OFF.

OPSCEM

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION -CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

NOTE: Steps 3.7.1 through 3.7.4 may be performed concurrently with the next FIVE steps.

NOTE: When the next step is performed, position indication will be lost for damper VNPAB-3249, and the damper will fail open.

BRENKEN FUND IN CH POSITION 3.6.11. AT 1733 REPOSITIONED BREAKER TO OFF 4/23/04

At MCC 2B32, ensure that W-21B breaker 2B52-3211M is OFF.

Verify that the Danger Tag series required per OI-39 is hanging.

3.6.13.

3.6.12.

OPS

FER NF 1-9, 4 FM 4-23-04 OPS

After RP survey is completed, enter the W-21 fan room using NP 1.9.4 Confined. Space Procedure instructions and clamp the VNPAB-3248 W-21A PAB Exh Stack Fan Discharge Control Damper SHUT to prevent "short circuiting" the W-21B discharge when the fan is started.

hild can upspar

3.6.14. Ensure tools have been removed, exit the W-21 fan room, and close the enclosure door.

After RP survey is completed, enter the W-30 fan room using NP 1.9.4 Confined 3.6.15. Space Procedure instructions and clamp the VNPAB-3265 W-30A PAB Exhaust Filter Fan Discharge CTL Damper SHUT to prevent "short circuiting" the W-21B discharge when the fan is started.

read the MTN

3.6.16. Ensure tools have been removed, exit the W-30 fan room, and close the enclosure door.

MA (AD 4 B)

A Doe to breaker impositioning (see CAPESECIE) Cotage Moragement has decided not to complete the medication during CIR25. Med 1842 For Housing Installation per Int CI-125 *E-125 will not be preferred during CIR25. Remaining offers increasing to restore all equipment to pre-medicination resistions will be perfermed. All other Page 27 of 81 Page 27 of 81 ser stops will be A Head accordingly

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION - CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

- 3.7. Disconnect and Bypass PAB Exhaust Stack Fan W-21B Interlock with W-21A
 - 3.7.1. At MCC 2B32, OPEN the 2B52-3211M cubicle door.

3.7.2. Check for both AC and DC Voltages. If any terminals EXCEPT the line side of the breaker (480 V) AND TP-9/TP-10 (120 V) are found to be energized, contact Supervision immediately for resolution.

HOLD POINT: Do not proceed without a concurrent checker present to ensure proper wire selection.

3.7.3. At 2B52-3211M, lift and tape the following two conductors (Ref. Bech E-2092 Sh. 10 and West 499B466 sh. 582B):

Cable No.	<u>Color</u>	From (Terminal Block)	<u>Label As</u>)	
23211M-E	BLK	TP-3	3	•
23211M-E	WHT	TP-3A	3A	
				HA CAD

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

3.7.4.	At 2B52-3211M, install and land the following external side jumper using # 14
	AWG gray SIS wire (Ref. Bech E-2092 Sh. 10 and West 499B466 sh. 582B):

<u>From</u> (Terminal	<u>To</u> (Terminal Block)	Torque (in/lbs)	Performe	d By (EM)	
Block)			<u>Landed</u>	Verified	
TP-3	TP-3A	Snug Tight	n A	Aln	_CVD + 32 04

NOTE: When the next step is performed, position indication will be restored for damper VNPAB-3249, and the damper may close.

NOTE: The bucket door must be open during the performance of the next step to allow observation of the contactor.

NOTE: The following two steps shall be worked concurrently.

3.7.5. At MCC 2B32, CLOSE breaker 2B52-3211M.

N/4 C45

3.7.6. If W-21B starts (contactor pulls in), immediately OPEN breaker 2B52-3211M and contact RE for resolution. N/A this step if not required.

ν¦Α C÷Ο OPS/EM

FOREIGN MATERIAL EXCLUSION

3.7.7. Verify that the area in and around 2B52-3211M has been cleaned and all loose parts and debris have been removed. Document on PBF-9158 Checklist.

NA (AD 1.S. (MTN)

3.7.8. At MCC 2B32, Close the 2B52-3211M door.

OPS/EM

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION -- CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

3.8 <i>.</i>	Disconnect	<u>PAB</u>	Supply	y Fan	W-35	Interlock	t With W-30A

3.8.1. At 1C04, place W-35-CS in the PULL OUT position.

<u>CAD</u> 4/10

NOTE: When the next step is performed, power will be lost for SV-4824, and W-35 PAB Supply Fan Outside Air Suct Ctl Damper VNPAB-4824 will fail closed.

3.8.2. At MCC 1B31, ensure that W-35 breaker 1B52-3110M is OPEN.

OPS/EM

3.8.3. At MCC 1B31, OPEN the 1B52-3110M cubicle door.

OPS/EM

3.8.4. Check for both AC and DC Voltages. If any terminals EXCEPT the line side of the breaker (480 V) AND TP-9/TP-10 (120 V) are found to be energized, contact Supervision immediately for resolution.

NA CAD

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

NOTE: While performing the next step, record the conductor color in the space provided.

HOLD POINT: Do not proceed without a concurrent checker present to ensure proper wire selection.

3.8.5. At 1B52-3110M, lift and tape the following conductor (Ref. Bech E-92 Sh. 6 and West 499B466 sh. 585):

Cable No.	<u>Color</u>	From (Terminal Block)	<u>Label</u>	
13110M-C		TP-1	1	
	•	•		<u>мА с4э</u> ЕМ
			Concurrer	nt Check (EM)

3.8.6. Hang the first tag prepared in step 2.7.5 for 1B52-3110M:

Description	<u>Position</u>
W-35 Aux Bldg Supply Fan	OFF
ries Hung: 1 <u>480v IuP 01-125 *E-F</u>	W (12-35) Em Ruo1
	CPS

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION -CR/PAB Fan Realignment

IWP 01-128*E-FN

NA 140

Concurrent Check (EM)

UNIT 1

RE:	MI	CHA	EL	L.	MI	LLER
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EL L. M	ILLER				
NOTE:	_		, power will be lost for umper VNPAB-3256 w		*
3.8.7.	At MCC B33, ens	sure that W-32	breaker B52-331F is C	FF.	
	,				NA CAD OPS/EM
3.8.8.	At MCC B33, OP	EN the B52-33	31F cubicle door.		
					OPS/EM
3.8.9.			ages. If any terminals be energized, contact S		
			•		<u> 4 4 (20)</u>
					ĖМ
NOTE:	While performing provided.	the next step, i	record the conductor c	olor in the	space
HOLD I		oceed withou ire selection.	t a concurrent checke	r present t	to ensure
3.8.10.	At B52-331F, lift a West 499B466 sh.	•	llowing conductor (Ref	E Bech E-92	2 Sh. 26 and
9	Cable No.	Color	From (Terminal Block)	<u>Label</u>	
	13110M-F		TP-10	1B	
					<u>м/л (4D</u> ЕМ

At MCC 1B31, CLOSE W-32 breaker B52-331F.

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION - CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

3.8.11.

		CAD 4111
		OPS/EM
NOTE:	When performing the next step, other tags may have been hung.	Those tags
	shall remain hung unless directed otherwise at the discretion of	operations.
	ONLY the tags listed below shall be removed.	-

3.8.12. Remove the Danger Tags from ONLY the following equipment and place the equipment in the listed position:

Breaker Description Position

1B52-3110M W-35 Aux Bldg Supply Fan OFF

Record Tag Series Removed: 4hv Inp 4-128 XE-FN (11-35) Em Rus

NOTE: The following two steps shall be worked concurrently.

3.8.13. At MCC 1B31, CLOSE breaker 1B52-3110M.

OPS/EM

3.8.14. If W-35 starts, immediately OPEN 1B52-3110M and contact the RE for resolution. N/A this step if not required.

NA (AD OPS/EM

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION -CR/PAB Fan Réalignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

- 3.9. Start PAB Ventilation Fans W-21B, W-30B, and W-35
 - 3.9.1. Verify that the following dampers are clamped SHUT (steps 3.6.12 and 3.6.14 completed):

VNPAB-3248 W-21A PAB Exh Stack Fan Discharge Control

Damper

VNPAB-3265 W-30A PAB Exhaust Filter Fan Discharge CTL

Damper

3.9.2. Notify Operations that all tags that were hung per OI-39 for personnel protection while working in the W-21 and W-30 fan rooms may now be cleared (work may continue following this notification).

Record Tag Series to be Removed: 1 4800 Iwa CI-128 16-FN (OI-39)

NOTE: Prior to performing the following four steps, ensure that personnel are positioned at Control Room panel 1C04, at 2B52-3213M and outside the W-30B cubicle (with the cubicle door closed) with radio contact available.

NOTE: The bucket door must be open during the performance of the next step to allow observation of the contactor.

NOTE: The following two steps shall be worked concurrently.

At MCC 2B32, CLOSE breaker 2B52-3213M. 3.9.3.

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

3.9.4. If W-30B starts, immediately OPEN 2B52-3213M and contact the RE for resolution. N/A this step if not required.

NA CAD OPS/EM

NOTE: The following two steps shall be worked concurrently.

3.9.5. "Red Flag" W-30B by moving W-30B-CS to the START position and releasing.

NA CAD OPS

3.9.6. If W-30B starts, immediately OPEN 2B52-3213M and contact the RE for resolution. N/A this step if not required.

NA CAD OPS/EM

3.9.7. At MCC 2B32, Close the 2B52-3213M door.

OPS/EM

NOTE: While performing the next step, the Aux Bldg Filter Air Flow Low amber status light on 1C04 may go on and then should go OFF remain OFF.

3.9.8. At 1C04, START W-21B and W-30B by moving W-21B-CS at 1C04 to START and releasing.

11/4 C40 OPS

3.9.9. On 1C04, verify that the W-30B red light is ON and the green light is OFF.

NA CAD OPS

3.9.10. On 1C04, verify that the W-21B red light is ON and the green light is OFF.

NA CAD OPS

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

3.9.11. On 1C04, verify that the VNPAB-3266 damper position indication shows the red light ON and green light OFF.

NA CAD OPS

3.9.12. On 1C04, verify that the VNPAB-3249 damper position indication shows the red light ON and green light OFF.

NA CAD OPS

3.9.13. Ensure that PAB Exhaust Fan W-32 is running.

<u>и́Д (ДЪ</u> ОРЅ

3.9.14. At 1C04, START W-35 by moving W-35-CS to START and releasing.

NA CAD OPS

3.9.15. On 1C04, verify that the W-35 red light is ON and the green light is OFF.

NIL CAD OPS

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION - CR/PAB Fan Rëalignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

3.10. Exit to IWP 01-128*E-BR

3.10.1. Ensure that the required PAB and Control Room Ventilation Fans are running.

3.10.2. Verify that fans W-21A, W-30A, and W-13B2 are OFF.

3.10.3. Add W-21A and W-30A to the Out of Service List (dampers gagged shut).

3.10.4. Verify all PBNP Maintenance Work Site signs (PBF-9181), EXCEPT 1B42 cubicles 8M, 11M, and 12M have been removed from work areas.

3.10.5. Exit this IWP to perform IWP 01-128*E-BR.

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Réalignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

3.11. Return from IWP 01-128*E-BR

3.11.1. Verify that the installation and PMT performed under IWP 01-128*E-BR for MCC 1B42 bracing is complete through step 4.3.14.

CAD A IA OPS

<u>и|А с4о</u> RE

3.11.2. Verify that Chemistry and RP are prepared for a PAB ventilation outage.

CAD CAN CAN

3.11.3. Verify that plant conditions will support turning off the CR and PAB ventilation fans listed in step 2.7.3 to allow restoring interlocks and performing PMT for fans W-13B1/B2, W-21A/B, and W-30A/B.

NA (AD

3.11.4. Perform the remaining steps in this IWP to restore the interlocks for W-13B1/B2, W-21A/B, W-30A/B, and W-35 and to complete PMT-demonstrating—proper operation of these fans following both restoration of interlocks (all 5 fans)—and bucket removal for 1B42 bracing installation (rotation checks for W-21A, W-30A, and W-13B2 only)— W-314B and W-33AB and be refused to review.



MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

3.12. Secure PAB Vent Fans and Prepare to Restore Both Trains to Operation

NOTE: While performing the next step, the following fans will trip if running:

- W-30A or B, Auxiliary Building Filter Fan
- W-27A or B, Health Physics Exhaust Fan
- W-32, PAB Exhaust Fan
- W-35, PAB Supply Fan
- W-23, Service Building AC Fan
- W-29, Service Building AC Fan

NOTE: While performing the next two steps, Annunciator window B-4-10 "Control Room A/C Units Air Flow Low" will alarm.

3.12.1. Secure Aux Building Stack Ventilation Fan W-21B and Aux Bldg Filter Fan W-30B (by stopping the running W-21 fan) and hang the required Danger Tags in accordance with OI 39 while continuing with this procedure.

Record Tag Series Hung: 1480 Jup 01-128 E-FN (02-39) En luo-i

NOTE: When the next step is performed, position indication will be lost for damper VNPAB-3248.

3.12.2. At MCC 1B42, ensure that W-21A breaker 1B52-4211M is OFF.

NA CAD
OPS/EM

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

NOTE: When the next step is performed, position indication will be lost for damper VNPAB-3265.

3.12.3. At MCC 1B42, ensure that W-30A breaker 1B52-4212M is OFF.

OPS/EM

NOTE: When the next step is performed, position indication will be lost for damper VNPAB-3249, and the damper will fail open.

3.12.4. At MCC 2B32, ensure that W-21B breaker 2B52-3211M is OFF.

nia (40 OPS/EM

NOTE: When the next step is performed, position indication will be lost for damper VNPAB-3266, and the damper will fail open.

3.12.5. At MCC 2B32, ensure that W-30B breaker 2B52-3213M is OFF.

OPS/EM

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION - CR/PAB Fan Realignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

- NOTE: Steps 3.13.1 through 3.13.5 may be performed concurrently with the next FIVE steps.
- 3.12.6. Verify that the Danger Tag series required per OI-39 is hanging.

NA CAD

3.12.7. After RP survey is completed, enter the W-21 fan room using NP 1.9.4 Confined Space Procedure instructions and remove the clamp holding the VNPAB-3248 W-21A PAB Exh Stack Fan Discharge Control Damper SHUT and restore the damper to normal operation.

MTN

3.12.8. Ensure tools have been removed, exit the W-21 fan room, and close the enclosure door.

MTN

3.12.9. After RP survey is completed, enter the W-30 fan room using NP 1.9.4 Confined Space Procedure instructions and remove the clamp holding the VNPAB-3265 W-30A PAB Exhaust Filter Fan Discharge CTL Damper SHUT and restore the damper to normal operation.

ط<u>م دلم</u> MTN

3.12.10. Ensure tools have been removed, exit the W-30 fan room, and close the enclosure door.

NA CAO MTN

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Realignment

IWP 01-128*E-FN

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L						

RE: MICHAEL L. MILLER

3.13.	Restore	PAB Exhaust Stack	Fan W-21B Interloc	ck with W-21A	<u> </u>	
	3.13.1.	At MCC 2B32, C	PEN the 2B52-3211	M cubicle doo	r.	te se
						<u>14 (45)</u> EM
	3.13.2.	the breaker (480)	C and DC Voltages. V) AND TP-9/TP-10 ediately for resolutio	(120 V) are fo		
						hild cad EM
	3.13.3.		remove the followin 9B466 sh. 582B):	g external side	jumper (Ref.	Bech E-2092
		From (Terminal Block)	<u>To</u> (Terminal Block)	Performed	1 By (EM)	
		(Terrimar Block)	(Terrimar Block)	Removed	<u>Verified</u>	
•		TP-3	TP-3A	<u> 147</u>	<u>~14 c</u>	AD.
	HOLD		(G.7) Do not procee roper wire labeling	_		
	3.13.4.		remove the tape from Bech E-2092 sh. 10			_

Cable No.	<u>Color</u>	<u>To</u> (Terminal Block)	<u>Label</u>	Torque (in/lbs)	Performe	d By (EM)	
					Landed	Verified	
23211M-E	BLK	TP-3	3	Snug Tight	N_A	<u> </u>	GAD
23211M-E	WHT	TP-3A	3A	Snug Tight	<u> </u>	js A	CHO
	Wire la	beling and landing	-	ents are satisfactDate	ory.		

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Rëalignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

FOREIGN MATERIAL EXCLUSION

3.13.5. Verify that the area in and around 2B52-3211M has been cleaned and all loose parts and debris have been removed. Document on PBF-9158 Checklist.

(MTM) .2.I

NOTE: When the next step is performed, position indication will be restored for damper VNPAB-3249, and the damper may close.

NOTE:—The bucket door must be open during the performance of the next step to allow — observation of the contactor:

NOTE: The following two steps shall be worked concurrently.

NOTE: The following two steps shall be worked concurrently.

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| NOTE: The following two steps shall be worked concurrently.
| NOTE: The following two steps shall be worked concurrently.
| NOTE: The following two steps shall be worked concurrently.

3.13.7. If W-21B starts (contactor pulls in), immediately OPEN breaker 2B52-3211M and contact RE for resolution. N/A this step if not required.

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MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Realignment

IWP 01-128*E-FN

EM

UNIT 1

RE: MICHAEL L. MILLER

3.14.	Restore	PAB Supply Fan W-35 Interlock With W-30A
	3.14.1.	At 1C04, place W-35-CS in the PULL OUT position.
		OPS AIN
	NOTE:	When the next step is performed, power will be lost for SV-4824, and W-35 PAB Supply Fan Outside Air Suct Ctl Damper VNPAB-4824 will fail closed.
	3.14.2.	At MCC 1B31, ensure that W-35 breaker 1B52-3110M is OPEN. NA CAD OPS/EM
	3.14.3.	At MCC 1B31, OPEN the 1B52-3110M cubicle door. NA CLD OPS/EM
	3.14.4.	Check for both AC and DC Voltages. If any terminals EXCEPT the line side of the breaker (480 V) AND TP-9/TP-10 (120 V) are found to be energized, contact Supervision immediately for resolution.
•	•	EM
	3.14.5.	Copy the conductor color recorded for the conductor lifted in step 3.8.5 to the space provided in the table for the next step.

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Realignment

IWP 01-128*E-FN

UNI	T 1	
RE:	MICHAEL	L. MILLER

<u>HOLD POINT</u>: (E.14.1) (G.7) Do not proceed without QC Inspector present to ensure proper wire labeling and landing in the next step.

3.14.6. At 1B52-3110M, remove the tape from and land the following conductor (Ref. Bech E-92 sh. 6 & West 499B466 sh. 585):

	Bech E-92 s	h. 6 & West	499B466 s	h. 585):			
Cable No.	<u>Color</u> (Term	<u>To</u> ninal Block)	<u>Label</u>	Torque (in/lbs)	Performe	d By (EM)	
	<u>(1.0000</u>			(112.100)	Landed	<u>Verified</u>	
13110M-C		TP-1	1	Snug Tight		11/7	_C\D
	Wire labeling	and landing	requirem	ents are satisfact	ory.		
	QC Inspector		•	Date	•		
	FOREIGN	MATERIA	L EXCLU	SION		•	
3.14				B52-3110M has be. Document on Pl			
					٠	<u>ыр са</u> I.S. (МТЛ	4) D
3.14	4.8. Hang the sec	ond tag prep	ared in step	2.7.5 for 1B52-3	110M:		
	<u>Breaker</u>	<u>Descript</u>	<u>ion</u>			Position	
	1B52-3110M	W-35 A	ux Bldg Su	pply Fan		OFF	
	Record Tag S	Series Hung	14800	Inp 01-128	*E-FN (35) E	7
				Inp 01-128	2-20-2	ri 4 (AD OPS	

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION -CR/PAB Fan Realignment

IWP 01-128*E-FN

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RE: MICHAEL L. MILLEI

E: MICHA	EL L. M	ILLE	₹				
	NOTE:		the next step is pe Exhaust Fan Disch	•		•	•
	3.14.9.	At M	ICC B33, ensure th	at W-32 br	eaker B52-331F i	is OFF.	حدد داد
							OPS/EM
	3.14.10.	the b	ck for both AC and reaker (480 V) are resolution.				
							<u> </u>
	3.14.11.		the conductor colo provided in the tal			r lifted in step	3.8.9 to the
							⊢ ν∳ cad EM
	HOLD I	POINT	: (E.14.1) (G.7) I ensure proper	-	ceed without QC ng and landing i		
	3.14.12.		52-331F, remove th Sh. 26 and West 49	_		lowing conduc	tor (Ref. Bech
Cable No.	<u>Cc</u>	olor	To	Label	Torque	Performed	d By (EM)
			(Terminal Block)		(in/lbs)	Landed	Verified
13110M-F			TP-10	1B	Snug Tight	<u>NA</u>	<u>14 CAD</u>
	V	Vire la	beling and landing	g requirem	ents are satisfac	tory.	

QC Inspector ______Date _____

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UNIT 1

RE: MICHAEL L. MILLER

FOREIGN MATERIAL EXCLUSION

3.14.13. At MCC B33, verify that the area in and around B52-331F has been cleaned and all loose parts and debris have been removed. Document on PBF-9158 Checklist.

I.S. (MTN)

3.14.14. At MCC B33, CLOSE W-32 breaker B52-331F.

NA CAD

NOTE: When performing the next step, other tags may have been hung. Those tags shall remain hung unless directed otherwise at the discretion of operations.

ONLY the tags listed below shall be removed.

3.14.15. Remove the Danger Tags from ONLY the following equipment and place the equipment in the listed position:

Breaker Description Position

1B52-3110M W-35 Aux Bldg Supply Fan OFF

Record Tag Series Removed: 4800 Jap 01-128 XE-FN (u-35) Em

Record Tag Series Removed: 14800 Jap 01-128 XE-FN (u-35) Em

Record Tag Series Removed: 14800 Jap 01-128 XE-FN (u-35) Em

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RE: MICHAEL L. MILLER

NOTE: The following two steps shall be worked concurrently.

3.14.16. At MCC 1B31, CLOSE breaker 1B52-3110M.

3.14.17. If W-35 starts, immediately OPEN 1B52-3110M and contact the RE for resolution. N/A this step if not required.

3.14.18. Close the 1B52-3110M cubicle door.

3.15. Clean up

Any construction debris in or around the location of work has been cleaned up.

Date 4/24/4

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UNIT 1

RE: MICHAEL L	MILLER
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3.16.	Installa	tion Complete
	3.16.1.	The QC requirements of this installation have been completed.
		QC Inspector NA Date Date
	3.16.2.	As-Built Description This IWP was installed by: Date Date
		This IWP was installed by: Date UZY 19
		The installation was performed in accordance with this IWP and Working Drawings (list revisions):
	•	ECR(s) No.: No.:
		CR(s) No.: CAP (560)C
		Other considerations: None
		Attach any additional documentation of the as-built description to this IWP.
	3.16.3.	List all calibrated equipment used during installation of this modification in the Work Order.
	3.16.4.	Record QAR number(s) in Work Order.
	3.16.5.	The installation of this IWP is complete.
		RE Charles Date 4 27/24
		IS Date 4744
		Wirk suite Aburted; recinen
		In progress uply
		Page 40 a 5 8 1

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IWP 01-128*E-FN

UNIT	1
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RE: MICHAEL L. MILLER

4.	TESTIN	\mathbf{G}

4.1. <u>Testing Information</u>



- 4.1.1. The intent of this testing is to verify proper operation of buckets 1B52-428M, 1B52-4211M, and 1B52-4212M and to verify proper restoration of the interlocks between W-13B1 and B2, W-21A and B, and W30A/B and W-35: W-31A/B and W-35: W-31A/B and W30A/B and W-35: W-31A/B and W-
- 4.1.2. Acceptance criteria for this testing is the successful completion of the testing steps included in this IWP.

4.2. Pre-Test Requirements

4.2.1. Perform a pre-test briefing with the testing group representative.

R.E./I.S.	NA	CAD	4/23/24	Date	Time	
•		<u> </u>				

4.2.2. Initial Conditions



W-32 PAB-Exhaust Fan is operable and can be run during this testing.

4.2.3. Release for Testing

The W-21A and W-30A discharge damper gags have been removed per steps 3.12.7 and 3.12.9.

ni A cad MTN

The Aux Bldg Stack Ventilation Fans, W-21A and W-21B, the Aux Bldg Filter Fans, W-30A and W-30B, the PAB Supply Fan, W-35, and the Control Room Recirc Fans, W-13B1 and W-13B2 will be started and stopped during the following testing. It is acceptable to proceed with this test.

DSS	N.	Ĭ4	C4D	١);	33) %	Date	_	Time	

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION - CR/PAB Fan Rèalignment

IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

4.3. Post Maintenance Testing (PMT)

دنۍ دنۍ NOTE: The hucket door must be open during the following steps to allow observation of the contactor during testing.

4.3.1. At MCC 2B32, open the 2B52-3213M bucket door.

NA CAD OPS/EM

1,221,31 1,221,31 NOTE: The following two steps shall be worked concurrently:

4.3.2. CLOSE breaker 2B52-3213M FWR TO W-3cB (F-23/F-24) FAB

Exhaust Filter Fan

OPSÆM-

4.3.3. If W-30B starts (contactor pulls in), immediately OPEN 2B52-3213M and contact the RE for resolution. N/A this step if not required.

OPS/EM

4.3.4. Close the 2B52-3213M bucket door.

OPS/EM

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UNIT 1

RE: MICHAEL L. MILLER

NOTE: When performing the next step, other Danger Tags may have been hung. Those tags shall remain hung unless directed otherwise at the discretion of Operations. ONLY the equipment tags listed below shall be removed for the testing of W-21A.

Record Tag Series Hung:

4.3.5. Remove the Danger Tags from ONLY the following equipment and place the equipment to the listed position:

Equipment	Description	<u>Position</u>
Slider TMK-1 (Riser 5-1C04)	PAB Stack Fans Aux Relay W-21X	CLOSED
Slider TMK-2 (Riser 5-1C04)	PAB Stack Fans Aux Relay W-21X	CLOSED

(AD)

Remove the Caution Tags from ONLY the following equipment and place the 4.3.6. equipment to the listed position:

Equipment	Description	Position
W-21A-CS	PAB Exhaust Stack Fan W-21A Control Switch (1C04)	PULL OUT
W-30A-CS	W-30A PAB Exhaust Filter Fan Control Switch (1C-04)	PULL OUT

Record Tag Series Removed: 1 4800 Imp 01-128 6-FW (L-UA)

Cout Part

MR 01-128*E: MCC 1B42 BUS BRACING INSTALLATION – CR/PAB Fan Realignment

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UNIT 1

RE: MICHAEL L. MILLER

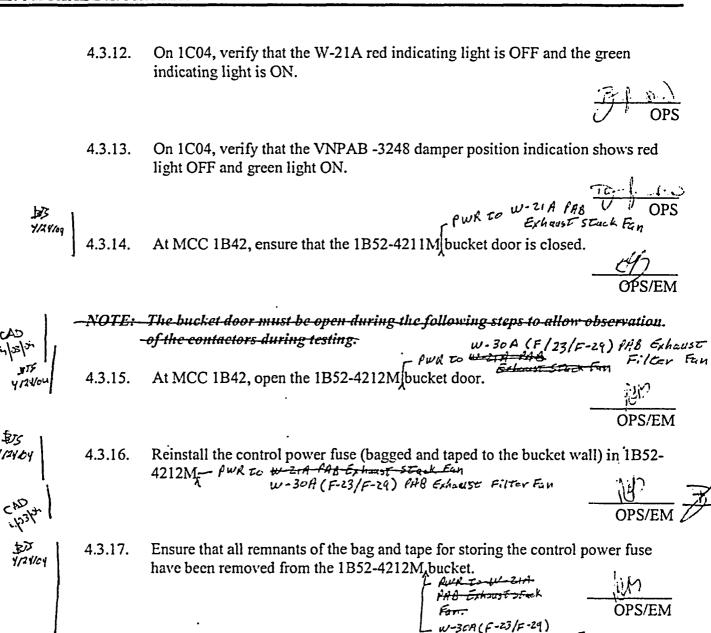
راي المراجعة	-NOTE:	The bucket door must be open during the following steps to allow observation of the contactors during testing.
H55 4/2464	4.3.7.	At MCC 1B42, open the 1B52-4211M bucket door.
भगड भग्न भर्द प्	4.3.8.	Reinstall the control power fuse (bagged and taped to the bucket wall) in 1B52- 4211M PWR To W-ZIA PRB Exhaust Stack Fan BY 1/24/64
\$75 1/21/04	4.3.9.	Ensure that all remnants of the bag and tape for storing the control power fuse have been removed from the 1B52-4211M bucket. LINE TO W-ZIM PAB Exhaust STATE FAM
المُعْلِمُ ا		Vizyte, OPS/EM Prior to performing the following testing steps, ensure personnel are positioned in the Control Room, at 1B52-4211M. The following two steps shall be worked concurrently.
₩.	NOTE:	When the next step is performed, power and position indication will be restored for VNPAB-3248, PAB Exhaust Stack Fan Discharge Control Damper, and the damper may move.
9.5 3.5	4.3.10.	Close breaker 1B52-4211M. PWA TO W-21A PAB Exhaust Stack Fan VISTORY OPSIEM
ı	4.3.11.	If W-21A starts (contactor pulls in), immediately OPEN breaker 1B52-4211M and contact the RE for resolution. N/A this step if not required.

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UNIT 1

RE: MICHAEL L. MILLER



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UNIT 1

RE: MICHAEL L. MILLER



NOTE: Prior to performing the following testing steps, ensure personnel are positionedin the Control Room, at 1B52-4212M.

NOTE: When the next step is performed, power and position indication will be restored for VNPAB-3265, W-30A PAB Exhaust Filter Fan Disch Ctl Damper, and the damper may move.

NOTE: The following two steps shall be worked concurrently.

4.3.18. Close Breaker 1B52-4212Mr- w-36A (F-23/F-29) PAB
YAY.

W-30A (F-23/F-24) PAB Exhaust Filter Fun-4.3.19. If W-30A starts (contactor pulls in), immediately OPEN 1B52-4212M and contact the RE for resolution. N/A this step if not required.

4.3.20. On 1C04, verify that the W-30A red indicating light is OFF and the green indicating light is ON.

On 1C04, verify that the VNPAB-3265 damper position indication shows red 4.3.21. light OFF and green light ON.

At MCC 1B42, ensure that the 1B52-4212M bucket door is closed.

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UNIT 1

RE: MICHAEL L. MILLER

4.3.23.	On 1C04, ensure that W-30B is "Green Flagged" (move control switch
	W-30B-CS momentarily to STOP if necessary).

NIL CAD OPS

4.3.24. On 1C04, ensure that W-30A is "Red Flagged" to start with W-21A (move control switch W-30A-CS momentarily to START if necessary).

и<mark>й сло</mark> OPS

- NOTE: Prior to performing the following SEVEN testing steps, ensure personnel are positioned in the Control Room, at 1B52-4211M, at W-21A (with the cubicle door closed), at 1B52-4212M, and at W-30A (with the cubicle door closed) with radio contact available.
- 4.3.25. Verify that the Danger Tag series required per OI-39 Section 5.6.4 and 5.8.4 for W-21B and W-30B out of service is hanging.

OPS/EM

4.3.26. After RP survey is completed, enter the W-21 fan room using NP 1.9.4 Confined Space Procedure instructions.

NA CAD OPS/EM

4.3.27. After RP survey is completed, enter the W-30 fan room using NP 1.9.4 Confined Space Procedure instructions after RP survey is completed.

OPS/EM

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UNIT 1

RE: MICHAEL L. MILLER

NOTE: The next THREE steps should be worked concurrently.

NOTE: While performing the next step, the following amber status light on 1C-04R may go ON and then go back OFF:

- FS-3297 "Aux Building Stack Fans Low Flow"
- 4.3.28. Momentarily START and then STOP (BUMP) W-21A and W-30A from W-21A-CS.

η<mark>α cad</mark> OPS

HOLD POINT: Do not proceed without a peer reviewer present to ensure proper fan rotation direction in the next two steps.

4.3.29. Observe the direction of W-21A's rotation and verify that the fan is rotating in the correct direction.

N/4 C4D EM

NA CAD
Peer Reviewer (EM)

4.3.30. Observe the direction of W-30A's rotation and verify that the fan is rotating in the correct direction.

NA CAD EM

Peer Reviewer (EM)

4.3.31. Ensure that personnel stationed in the W-21 fan cubicle have exited the cubicle and secured the enclosure.

NA (AD OPS

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UNIT 1

RE: MICHAEL L. MILLER

Ensure that personnel stationed in the W-30 fan cubicle have exited the cubicle 4.3.32. and secured the enclosure.

4.3.33. Notify Operations that all tags that were hung per OI-39 for personnel protection while working in the W-21 and W-30 fan rooms may now be cleared (work may continue following this notification).

Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Removed: \(\frac{480 \times InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be InP 01-128\times Factor (0I-39)}{Em Record Tag Series to be Remo

4.3.34.

NOTE: While performing the next step, the following amber status light on 1C-04R may go ON and then should remain OFF:

- FS-3297 "Aux Building Stack Fans Low Flow"
- 4.3.35. START Aux Bldg Stack Ventilation Fan W-21A by moving control switch W-21A-CS at 1C-04 to START.

4.3.36. On 1C04, verify that the W-21A red light is ON and the green light is OFF.

4.3.37. On 1C04, verify that the VNPAB-3248 damper position indication shows red light ON and green light OFF.

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UNIT 1

RE: MICHAEL L. MILLER

4.3.38. On 1C04, verify that the W-30A red light is ON and the green light is OFF.

4.3.39. On 1C04, verify that the VNPAB -3265 damper position indication shows red light ON and green light OFF.

4.3.40. At 1C04, ensure that the W-32 PAB Exhaust Fan is running (red light ON and Green light OFF).

4.3.41. Verify that Aux Bldg Stack Ventilation Fan W-21B will not start (green light stays ON and red light stays OFF) with W-21A running by moving control switch W-21B-CS at 1C-04 to START.

4.3.42. On 1C04, ensure that W-21B is "Green Flagged" (move control switch W-21B-CS momentarily to STOP if necessary).

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UNIT 1

RE: MICHAEL L. MILLER

NOTE: While performing the next step, the following fans will trip if running:

- W-30A or B, Auxiliary Building Filter Fan
- W-27A or B, Health Physics Exhaust Fan
- W-32, PAB Exhaust Fan
- W-35, PAB Supply Fan
- W-23, Service Building AC Fan
- W-29, Service Building AC Fan

NOTE: While performing the next step, 1C-04 annunciator window 1C-2-9 "Containment or Aux Building Vent System Air Flow Low" may alarm.

NOTE: While performing the next step, the following amber status light on 1C-04R may illuminate:

- FS-3207 "Aux Building Filter Fans Low Flow"
- 4.3.43. STOP Aux Bldg Stack Ventilation Fan W-21A by moving control switch W-21A-CS at 1C-04 to STOP.

OPS

4.3.44. At 1C04, verify that the W-32 PAB Exhaust Fan tripped (green light ON and red light OFF).

1/1 / OPS

4.3.45. On 1C04, ensure that W-30A is "Green Flagged" so it will not start (move control switch W-30A-CS momentarily to STOP if necessary).

OPS

4.3.46. On 1C04, ensure that W-30B is "Red Flagged" to start with W-21B (move control switch W-30B-CS momentarily to START if necessary).

A'A Journ

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UNIT 1

RE: MICHAEL L. MILLER

- NOTE: After performing the next step, the following amber status light on 1C-04R may come ON and then should go OFF:
 - FS-3297 "Aux Building Stack Fans Low Flow"
- 4.3.47. START Aux Bldg Stack Ventilation Fan W-21B by moving control switch W-21B-CS at 1C-04 to START.

NIR INTH

4.3.48. Verify that the Aux Bldg Stack Ventilation Fan W-21A will not start (green light stays ON and red light stays OFF) with W-21B running by moving control switch W-21A-CS at 1C04 to START.

N/FI MATA

4.3.49. On 1C04, ensure that W-21A is "Green Flagged" (move control switch W-21A-CS momentarily to STOP if necessary).

IN INVIORS

4.3.50. At 1C04, ensure that the W-32 PAB Exhaust Fan is running (red light ON and Green light OFF).

4.3.51. At 1C04, ensure that the W-35 PAB Supply Fan W-35 is running (red light ON and Green light OFF).

4.3.52. At 1C04, verify that W-30B has been running for a minimum of 2 minutes.

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UNIT 1

RE: MICHAEL L. MILLER

4.3.53. Verify that the notes associated with the next THREE steps have been read and understood by the operating crew and that the appropriate manpower is available at 1C04.

N/A JMA/ OPS

NOTE: While performing the next step, the W-30B fan will be tripped for approximately 1 to 2 seconds and re-started. The fan MUST be tripped long enough for the magnetic field to decay (approximately 1 second) to reduce the possibility of damage to the motor. In order to avoid damage to the PAB duct work, the W-21B fan MUST be tripped within 3 seconds of the W-30B fan trip if the W-30B fan does not re-start and run. It may be advantageous to have additional operators at 1C04 to man W-21B-CS, assist with timing, and observe the W-35 indicating lights.

The expected response is that the W-35 fan trips immediately when the W-30B fan is tripped, and the W-30B fan re-starts successfully. The objective of the test is to verify that the W-30B fan trip causes the W-35 fan trip. Successfully re-starting the W-30B fan is not required for a successful test. If the W-21B fan must be tripped, the test would be considered successful IF the W-35 trip can be confirmed as occurring AFTER (or CONCURRENT WITH) the W-30B fan trip and BEFORE the W-21B fan is tripped.

NOTE: The following THREE steps shall be performed concurrently.

4.3.54. At 1C04, momentarily (approximately 1 second) stop and then re-start W-30B using W-30B-CS.

NIA JMILI OPS

4.3.55. At 1C04, IF W-30B does not re-start and run within 3 seconds of tripping it in the previous step, trip W-21B using W-21B-CS. N/A this step if not required.

4.3.56. At 1C04, verify that W-35 tripped (green light ON and red light OFF) either BEFORE W-21B was tripped OR without tripping W-21B.

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UNIT 1

RE: MICHAEL L. MILLER

4.3.57. STOP Aux Bldg Stack Ventilation Fan W-21B by moving control switch W-21B-CS at 1C-04 to STOP.

AMA AMA

4.3.58. At 1C04, place W-30B-CS to STOP.

NA Imy

4.3.59. On 1C04, ensure that W-30A is "Red Flagged" to start with W-21A (move control switch W-30A-CS momentarily to START if necessary).

N'A JMY.I

NOTE: While performing the next step, the following amber status light on 1C-04R may go ON and then should remain OFF:

• FS-3297 "Aux Building Stack Fans Low Flow"

4.3.60. START Aux Bldg Stack Ventilation Fan W-21A by moving control switch W-21A-CS at 1C-04 to START.

N// Indi
OPS

4.3.61. On 1C04, verify that the W-21A red light is ON and the green light is OFF.

A/A jms/

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IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

4.3.62. At 1C04, ensure that the W-32 PAB Exhaust Fan is running (red light ON and Green light OFF).

NH ING OPS

4.3.63. At 1C04, ensure that the W-35 PAB Supply Fan W-35 is running (red light ON and Green light OFF).

OPS

4.3.64. At 1C04, verify that W-30A has been running for a minimum of 2 minutes.

OPS

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IWP 01-128*E-FN

UNIT 1

RE: MICHAEL L. MILLER

4.3.65. Verify that the notes associated with the next THREE steps have been read and understood by the operating crew and that the appropriate manpower is available at 1C04.

NOTE: While performing the next step, the W-30A fan will be tripped for approximately 1 to 2 seconds and re-started. The fan MUST be tripped long enough for the magnetic field to decay (approximately 1 second) to reduce the possibility of damage to the motor. In order to avoid damage to the PAB duct work, the W-21A fan MUST be tripped within 3 seconds of the W-30A fan trip if the W-30A fan does not re-start and run. It may be advantageous to have additional operators at 1C04 to man W-21A-CS, assist with timing, and observe the W-35 indicating lights.

The expected response is that the W-35 fan trips immediately when the W-30A fan is tripped, and the W-30A fan re-starts successfully. The objective of the test is to verify that the W-30A fan trip causes the W-35 fan trip. Successfully re-starting the W-30A fan is not required for a successful test. If the W-21A fan must be tripped, the test would be considered successful IF the W-35 trip can be confirmed as occurring AFTER (or CONCURRENT WITH) the W-30A fan trip and BEFORE the W-21A fan is tripped.

NOTE: The following THREE steps shall be performed concurrently.

4.3.66. At 1C04, momentarily (approximately 1 second) stop and then re-start W-30A using W-30A-CS.

4.3.67. At 1C04, IF W-30A does not re-start and run within 3 seconds of tripping it in the previous step, trip W-21A using W-21A-CS. N/A this step if not required.

4.3.68. At 1C04, verify that W-35 tripped (green light ON and red light OFF) either BEFORE W-21A was tripped OR without tripping W-21A.