WATTS BAR NUCLEAR

SPECIAL PERFORMANCE TEST PROCEDURE

SPT-039-01 REVISION 1

CO2 ENCLOSURE DOOR FAN TESTING

SPT-039-01 /R1

Propared by Date

Reviewed by Date

Approved by Date

INFORMATION ON ON OFFICIAL TEST COPY

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~ 1			/ 1 / 1	1 1

0.1	Instrument Room	
6.1.1	DETERMINE the dimensions of the enclosure by measurement of the following:	
	Height $19'$ Ft. $5/2$ in. Length 30 Ft. $2'/2$ in. Width 42 Ft. 0 in.	10-94
6.1.2	CALCULATE the room volume in Cubic Ft. as follows:	
	H $10^{1}5\%$ x L 862% x W $42'$ = 70461.2 Cu.Ft.	0-94
6.1.3	RECORD vendor calculations of the maximum developed head (in. W.C.) of the CO ₂ /air mixture column. (Using the measured room height, CO ₂ System Design information, and previous concentration test results).	
	in. W.C.	
the second of the second		94
6.1.4	INSTALL the Door Fan Apparatus in the door which provides the most favorable relief area (i.e., Leaks which leave the room during pressurization can be readily returned to the	
•	Fan Apparatus through a return air path).	2 -9 4
6.1.5	SEAL the Fan Apparatus completely in the door opening.	C. I
	Equipment listed on Appendix 9. pointing to simulate the requestion immediately following CO ₂ discharge into the protected area. and RECORD specific was actions or verifications in the Chronological Log.	uired
- A.	Vent or exhaust fans OFF	
· B.	Doors CLOSED or door opening SEALED with door 12.1.94	=
	Dampers in AFTER DISCHARGE position per 12.1.94	
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6.1.7 RECORD the measured Pressure Differential across the door fan.

in. W.C. <u>.006</u>

ON 1 12-10-94

6.1.8 IF the pressure measurement in Step 6.1.7 is 25% or more of the previously calculated column pressure using absolute values, DETERMINE the cause of the excessive static pressure and REDUCE to less than 25%.

M/12-10-94

OPEN Doors, Ventilation openings, etc. in the adjacent areas on each side, above and below the enclosure being tested to the maximum extent possible to provide a return air path for all leakage leaving the enclosure. Any adjacent areas in which a return air path cannot be established are to be evaluated by the Contractor.

M / 12-10-99

UNSEAL Fan Apparatus and OPERATE fan in the De-pressurization mode. (CONTROL fan speed such that the absolute value of the pressure developed matches the calculated column pressure, adjusted for the previously measured static pressure, per the NFPA procedure).

M / 12-10-94

NOTE:

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6.1.11	RECORD under DE-PRESSURIZATION mode the following;	
Α.	Diff. Press. Across Fan Opening (in. W.C.)090	
в.	Flow through Fan(s) CFM /38/.82	
C.	Inside temperature <u>67.6</u> °F.	·
D.	Outside Temperature °F.	OM / 12-10-99
6.1.12	REVERSE Fan position and PRESSURIZE enclosure. (CONTROL fan speed such that the absolute value of the pressure developed matches the calculated column pressure, adjusted for the previously measured static pressure, per NFPA Procedure).	ON /12-10-94
6.1.13	RECORD the following Data while pressurizing the Enclosure.	
Α.	Diff. Press. Across Fan Opening. (in. W.C.)090	
В.	Flow through Fan(s). CFM 1440	
C.	Inside temperature <u>68.8</u> °F.	
D.	Outside temperature <u>67.8</u> °F.	<u>M</u> 1 12-10-94
NOTE:	Steps 6.1.5 through 6.1.13 may be reperformed as necessary until acceptable results are obtained.	
NOTE:	IF the Retention time predicted for the minimum protected Height is less than the desired hold time, use the fan apparatus and a smoke pencil to find the leakage, and seal as necessary.	

6.1.14 RECORD vendor calculation results of the equivalent leakage area (Sq. in.) using recorded data, and the retention time through use of the fan apparatus testing software, using the previously determined hold time and the minimum protected height.

the minimum protected height.

Whole Room Leakage Area 277.2 Sq. in.

BCLA 138.6 Sq. in.

37.7 Retention Time (≥ 20 minutes)

M / 12-10-94

6.1.15 REMOVE Door Fan Apparatus from doorway.

OM 1 12-10-94

6.1.16 RETURN doors, fans, and dampers to NORMAL per Appendix 9.1

6.1.17 NOTIFY SOS that Door Fan Test in U-1 Auxiliary Instrument Room is COMPLETE.

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TN	TmT	D.T.C	/DATE
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6.2	CO ₂ Protected Enclosure, U-2 Auxiliary Instrument Room	
6.2.1	DETERMINE the dimensions of the enclosure by measurement of the following:	
	Height 19 Ft. 6/2 in. Length 92 Ft. 6 in. Width 42 Ft. 0 in.	194
6.2.2	CALCULATE the room volume in Cubic Ft. as follows:	
	$H19'6''_{L} \times L 92'6'' \times W 4Z = 75912.9 \text{ Cu.Ft.}$	94
6.2.3	RECORD vendor calculations of the maximum developed head (in. W.C.) of the CO_2 /air mixture column. (Using the measured room height, CO_2 System Design information, and previous concentration test results).	
	0.087 in. W.C.	194
to the second se	INSTALL the Door Fan Apparatus in the door which provides the most favorable relief area (i.e., Leaks which leave the room during pressurization can be readily returned to the Fan Apparatus through a return air path).	
6.2.5	SEAL the Fan Apparatus completely in the door opening.	
ii Simulane iree	MANIPULATE the following to simulate the required participation immediately following CO ₂ discharge into the protected area, and RECORD specificactions or verifications in the Chronological Log.	
A	Vent or exhaust fans OFF	
B	Doors CLOSED or door opening SEALED with door fan Apparatus:	
	Dampers in AFTER DISCHARGE position per design.	
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6.2.7 RECORD the measured Pressure Differential across the door fan.

in. W.C. 0.029 0.018

/ N.10.94

6.2.8 IF the pressure measurement in Step 6.2.7 is 25% or more of the previously calculated column pressure using absolute values, DETERMINE the cause of the excessive static pressure and REDUCE to less than 25%.

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OPEN Doors, Ventilation openings, etc. in the adjacent areas on each side, above and below the enclosure being tested to the maximum extent possible to provide a return air path for all leakage leaving the enclosure. Any adjacent areas in which a return air path cannot be established are to be evaluated by the Contractor.

/ M/10/91

ONSEAL Fan Apparatus and OPERATE fan in the De-pressurization mode. (CONTROL fan speed such that the absolute value of the pressure developed matches the calculated column pressure, adjusted for the previously measured static pressure, per the NFPA procedure).

1 14/14

INITIALS/DATE	TNTI.	LALS.	/DATE
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- 6.2.11 RECORD under DE-PRESSURIZATION mode the following;
 - A. Diff. Press. Across Fan Opening (in. W.C.)

 O.082
 - B. Flow through Fan(s) CFM 1572.73
 - C. Inside temperature 4.8 °F.
 - D. Outside Temperature _66.4 °F

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6.2.12 REVERSE Fan position and PRESSURIZE enclosure. (CONTROL fan speed such that the absolute value of the pressure developed matches the calculated column pressure, adjusted for the previously measured static pressure, per NFPA Procedure).

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- 6.2.13 RECORD the following Data while pressurizing the Enclosure.
 - A. Diff. Press. Across Fan Opening. (in. W.C.)
 _O. 118
 - B. Flow through Fan(s). CFM 1232.73
 - C. Inside temperature <u>66.4</u> °F.
 - D. Outside temperature <u>66.0</u> °F

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NOTE: Steps 6.2.5 through 6.2.13 may be reperformed as necessary until acceptable results are obtained.

NOTE: IF the Retention time predicted for the minimum protected Height is less than the desired hold time, use the fan apparatus and a smoke pencil to find the leakage, and seal as necessary.

RECORD vendor calculation results of the equivalent leakage area (Sq. in.) using recorded data, and the retention time through use of the fan apparatus testing software, using the previously determined hold time and the minimum protected height.

Whole ROOM Leakage Area 261.45 sq.in.
BCLA 130.72 Sq. in.

37.7 Retention Time (≥ 20 minutes)

1410/24

6.2.15 REMOVE Door Fan Apparatus from doorway.

14/1/94 210

6.2.16 RETURN doors, fans, and dampers to NORMAL yer Appendix 9.1.

11/0/24

6.2.17 NOTIFY SOS that Door Fan Test in U-2 Auxiliary Instrument Room is COMPLETE.

1 14/194

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6.10	CO ₂ Protected Enclosure, Diesel Generator Room 1A-A
6.10.1	DETERMINE the dimensions of the enclosure by measurement of the following:
	Height 17 Ft. 0 in. Length 78 Ft. 0 in. Width 29 Ft. 0 in.
6.10.2	CALCULATE the room volume in Cubic Ft. as follows:
	H _ 17 x L _ 78 x W _ 29 = 38,454 Cu.Ft.
6.10.3	RECORD vendor calculations of the maximum developed head (in. W.C.) of the CO_2/air mixture column. (Using the measured room height, CO_2 System Design information, and previous concentration test results).
٠.	0.065 in. W.C.
	INSTALL the Door Fan Apparatus in the door which provides the most favorable relief area (i.e., Leaks which leave the room during pressurization can be readily returned to the Fan Apparatus through a return air path).
6.10.5	SEAL the Fan Apparatus completely in the door opening.
	MANIPULATE the following to simulate the condition immediately following CO ₂ discharge into the protected area. and RECORD specific Visa
	Log.
-A.	Vent or exhaust fans OFF Value of
B.	Doors CLOSED or door opening SEALED with door was
	Dampers in AFTER DISCHARGE position per 12:94 design.
	OFFICIAL TEST COPY

6.10.7 RECORD the measured Pressure Differential across the door fan.

in. W.C. <u>0.002</u>

1 n/9/94

6.10.8 IF the pressure measurement in Step 6.10.7 is 25% or more of the previously calculated column pressure using absolute values, DETERMINE the cause of the excessive static pressure and REDUCE to less than 25%.

149/94

6.10.9 OPEN Doors, Ventilation openings, etc. in the adjacent areas on each side, above and below the enclosure being tested to the maximum extent possible to provide a return air path for all leakage leaving the enclosure. Any adjacent areas in which a return air path cannot be established are to be evaluated by the Contractor.

17/9/94

6.10.10 UNSEAL Fan Apparatus and OPERATE fan in the De-pressurization mode. (CONTROL fan speed such that the absolute value of the pressure developed matches the calculated column pressure, adjusted for the previously measured static pressure, per the NFPA procedure).

12/9/24

6.10.11	RECORD under DE-PRESSURIZATION mode the following;
A.	Diff. Press. Across Fan Opening (in. W.C.) O.062
В.	Flow through Fan(s) CFM 518.4
c.	Inside temperature 72.4 °F.
D.	Outside Temperature 69.8 °F.
6.10.12	REVERSE Fan position and PRESSURIZE enclosure. (CONTROL fan speed such that the absolute value of the pressure developed matches the calculated column pressure, adjusted for the previously measured static pressure, per NFPA Procedure).
6.10.13	RECORD the following Data while pressurizing the Enclosure.
Α.	Diff. Press. Across Fan Opening. (in. W.C.)
в.	Flow through Fan(s). CFM 559.6
c.	Inside temperature 73.2 °F.
D. •	Outside temperature 64.8 °F.
NOTE:	Steps 6.10.5 through 6.10.13 may be reperformed as necessary until acceptable results are obtained.
NOTE:	IF the Retention time predicted for the minimum protected Height is less than the desired hold time, use the fan apparatus and a smoke pencil to find the leakage, and seal as necessary.

RECORD vendor calculation results of the equivalent leakage area (Sq. in.) using recorded data, and the retention time through use of the fan apparatus testing software, using the previously determined hold time and the minimum protected height.

Whole Row Leakage Area 15,591.85 Ig.in.

BCLA 145.07 Sq. in.

/8.4 Retention Time (≥ 10 minutes)

6.10.15 REMOVE Door Fan Apparatus from doorway.

6.10.16 RETURN doors, fans, and dampers to NORMAL per Appendix 9.1.

6.10.17 NOTIFY SOS that Door Fan Test in Diesel Generator Room 1A-A is COMPLETE.

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6.11	${ m CO_2}$ Protected Enclosure, Diesel Generator Room 1B-B	
6.11.1	DETERMINE the dimensions of the enclosure by measurement of the following:	
	Height	112/9/94
6.11.2	CALCULATE the room volume in Cubic Ft. as follows:	
	$H = 17 \times L = 78 \times W = 29 = 38,454$ Cu.Ft.	1 149/94
6.11.3	RECORD vendor calculations of the maximum developed head (in. W.C.) of the CO ₂ /air mixture column. (Using the measured room height, CO ₂ System Design information, and previous concentration test results).	,
	0.065 in. W.C.	1 n/9/94
6.11.4	INSTALL the Door Fan Apparatus in the door which provides the most favorable relief area (i.e., Leaks which leave the room during pressurization can be readily returned to the Fan Apparatus through a return air path).	Ja 1 12/9 /4
6.11.5	SEAL the Fan Apparatus completely in the door opening.	14/9/94 CN
6.11.6 simulati		14
	Vent or exhaust fans OFF مثم الموجه	/
Ŧ	Doors CLOSED or door opening SEALED with door fan Apparatus.	/
•	Dampers in AFTER DISCHARGE position per 12891	/
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6.11.7 RECORD the measured Pressure Differential across the door fan.

in. W.C. 0.005

12/9/94

6.11.8 IF the pressure measurement in Step 6.11.7 is 25% or more of the previously calculated column pressure using absolute values, DETERMINE the cause of the excessive static pressure and REDUCE to less than 25%.

112/9/14

6.11.9 OPEN Doors, Ventilation openings, etc. in the adjacent areas on each side, above and below the enclosure being tested to the maximum extent possible to provide a return air path for all leakage leaving the enclosure. Any adjacent areas in which a return air path cannot be established are to be evaluated by the Contractor.

/M/9/14

6.11.10 UNSEAL Fan Apparatus and OPERATE fan in the De-pressurization mode. (CONTROL fan speed such that the absolute value of the pressure developed matches the calculated column pressure, adjusted for the previously measured static pressure, per the NFPA procedure).

141/94

6.11.11	RECORD	under	DE-PRESSURIZATION	mode	the
	followi	ing;			

- A. Diff. Press. Across Fan Opening (in. W.C.)
- B. Flow through Fan(s) CFM 552.0
- c. Inside temperature 70.4 °F.
- D. Outside Temperature 718 °F.

1 h/2/24

6.11.12 REVERSE Fan position and PRESSURIZE
enclosure. (CONTROL fan speed such that the
absolute value of the pressure developed
matches the calculated column pressure,
adjusted for the previously measured static
pressure, per NFPA Procedure).

Jan 1/2/9/94

- **6.11.13** RECORD the following Data while pressurizing the Enclosure.
 - A. Diff. Press. Across Fan Opening. (in. W.C.)
 - B. Flow through Fan(s). CFM 603.98
 - C. Inside temperature 72.0 °F.
 - D. Outside temperature 66.8 °F.

1/2/9/94

NOTE: Steps 6.11.5 through 6.11.13 may be reperformed as necessary until acceptable results are obtained.

NOTE: IF the Retention time predicted for the minimum protected Height is less than the desired hold time, use the fan apparatus and a smoke pencil to find the leakage, and seal as necessary.

6.11.14 RECORD vendor calculation results of the equivalent leakage area (Sq. in.) using recorded data, and the retention time through use of the fan apparatus testing software, using the previously determined hold time and the minimum protected height.

Whole Room Lechage Area 15,595.32 Sq. in. BCLA 153.62 Sq. in.

17.0 Retention Time (≥ 10 minutes)

149/94

6.11.15 REMOVE Door Fan Apparatus from doorway.

6.11.16 RETURN doors, fans, and dampers to NORMAL, per Appendix 9.1.

6.11.17 NOTIFY SOS that Door Fan Test in Diesel Generator Room 1B-B is COMPLETE.

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6.12	CO ₂ Protected Enclosure, Diesel Generator Room 2A-A
6.12.1	DETERMINE the dimensions of the enclosure by measurement of the following:
	Height 17 Ft. 0 in. Length 78 Ft. 0 in. Width 29 Ft. 0 in.
6.12.2	CALCULATE the room volume in Cubic Ft. as follows:
	H 17 x L 78 x W 29 = 38454 Cu.Ft.
6.12.3	RECORD vendor calculations of the maximum developed head (in. W.C.) of the CO_2/air mixture column. (Using the measured room height, CO_2 System Design information, and previous concentration test results).
	0.065 in. W.C.
6.12.4	INSTALL the Door Fan Apparatus in the door which provides the most favorable relief area (i.e., Leaks which leave the room during pressurization can be readily returned to the Fan Apparatus through a return air path).
•	12994
6.12.5	opening.
6.12.6 imulate the	MANIPULATE the following to simulate the required position to condition immediately following CO ₂ discharge into the protected area. and RECORD specific x 123.74 actions or verifications in the Chronological Log.
A.	Vent or exhaust fans OFFVX 1.4-14
3.	Doors CLOSED or door opening SEALED with door fan Apparatus.
-c.	Dampers in AFTER DISCHARGE position per design
	. OFFICIAL TEST COPY

6.12.7 RECORD the measured Pressure Differential across the door fan.

in. W.C. <u>0.003</u>

1 179/99

6.12.8 IF the pressure measurement in Step 6.12.7 is 25% or more of the previously calculated column pressure using absolute values, DETERMINE the cause of the excessive static pressure and REDUCE to less than 25%.

1 47174

6.12.9 OPEN Doors, Ventilation openings, etc. in the adjacent areas on each side, above and below the enclosure being tested to the maximum extent possible to provide a return air path for all leakage leaving the enclosure. Any adjacent areas in which a return air path cannot be established are to be evaluated by the Contractor.

1 12/9/14

UNSEAL Fan Apparatus and OPERATE fan in the De-pressurization mode. (CONTROL fan speed such that the absolute value of the pressure developed matches the calculated column pressure, adjusted for the previously measured static pressure, per the NFPA procedure).

149/14

- RECORD under DE-PRESSURIZATION mode the 6.12.11 following;
 - Diff. Press. Across Fan Opening (in. W.C.) A. 0.062.
 - Flow through Fan(s) CFM 481.7 в.
 - Inside temperature 79.0 °F. C.
 - Outside Temperature 73.6 °F. D.

6.12.12

REVERSE Fan position and PRESSURIZE enclosure. (CONTROL fan speed such that the absolute value of the pressure developed

matches the calculated column pressure, adjusted for the previously measured static pressure, per NFPA Procedure).

RECORD the following Data while pressurizing 6.12.13 the Enclosure.

- Diff. Press. Across Fan Opening. (in. W.C.) Α. 0.068_-
- Flow through Fan(s). CFM 536.7 в.
- Inside temperature 79.8 °F. C.
- Outside temperature 64.6 °F. and the second of the second D.

Steps 6.12.5 through 6.12.13 may be NOTE: reperformed as necessary until acceptable results are obtained.

IF the Retention time predicted for the NOTE: minimum protected Height is less than the desired hold time, use the fan apparatus and a smoke pencil to find the leakage, and seal as necessary.

RECORD vendor calculation results of the equivalent leakage area (Sq. in.) using recorded data, and the retention time through use of the fan apparatus testing software, using the previously determined hold time and the minimum protected height.

Whole Room Leakage Area 15,582.03 Sq. m. BCLA 137.71 Sq. in.

(9. | Retention Time (≥ 10 minutes)

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6.12.15 REMOVE Door Fan Apparatus from doorway.

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6.12.16 RETURN doors, fans, and dampers to NORMAL, per Appendix 91.

12.9.94

6.12.17 NOTIFY SOS that Door Fan Test in Diesel Generator Room 2A-A is COMPLETE.

1 12.9.94

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6.13	CO ₂ Protected Enclosure, Diesel Generator Room 2B-B
6.13.1	DETERMINE the dimensions of the enclosure by measurement of the following:
	Height
6.13.2	CALCULATE the room volume in Cubic Ft. as follows:
	H <u>17</u> x L <u>78</u> x W <u>29</u> = 38,454 Cu.Ft.
6.13.3	RECORD vendor calculations of the maximum developed head (in. W.C.) of the $\rm CO_2/air$ mixture column. (Using the measured room height, $\rm CO_2$ System Design information, and previous concentration test results).
et in the second	0.065 in. W.C.
6.13.4	INSTALL the Door Fan Apparatus in the door which provides the most favorable relief area (i.e., Leaks which leave the room during pressurization can be readily returned to the Fan Apparatus through a return air path).
	1/129.94
6.13.5	SEAL the Fan Apparatus completely in the door opening.
6.13.6 Mulate the	equipment listed on Appendix 9.1 to the required positions to condition immediately following CO ₂ discharge into the protected area. and RECORD specific actions or verifications in the Chronological Log.
A.	Vent or exhaust fans OFF
∄. 	Doors CLOSED or door opening SEALED with door fan Apparatus.
c.	Dampers in AFTER DISCHARGE position per design.
	OFFICIAL TEST COPY

6.13.7 RECORD the measured Pressure Differential across the door fan.

in. W.C. <u>0.002</u>

129.94

6.13.8 IF the pressure measurement in Step 6.13.7 is 25% or more of the previously calculated column pressure using absolute values, DETERMINE the cause of the excessive static pressure and REDUCE to less than 25%.

12.9.94

6.13.9 OPEN Doors, Ventilation openings, etc. in the adjacent areas on each side, above and below the enclosure being tested to the maximum extent possible to provide a return air path for all leakage leaving the enclosure. Any adjacent areas in which a return air path cannot be established are to be evaluated by the Contractor.

/129.94

6.13.10 UNSEAL Fan Apparatus and OPERATE fan in the De-pressurization mode. (CONTROL fan speed such that the absolute value of the pressure developed matches the calculated column pressure, adjusted for the previously measured static pressure, per the NFPA procedure).

1 129.94

6.13.11	RECORD under DE-PRESSURIZATION mode	the
	following;	

- A. Diff. Press. Across Fan Opening (in. W.C.)
- B. Flow through Fan(s) CFM 1860
- c. Inside temperature 80.6 °F.
- D. Outside Temperature 71.0 °F.

/11.9.94

6.13.12 REVERSE Fan position and PRESSURIZE enclosure. (CONTROL fan speed such that the absolute value of the pressure developed matches the calculated column pressure, adjusted for the previously measured static pressure, per NFPA Procedure).

12-9.94

- 6.13.13 RECORD the following Data while pressurizing the Enclosure.
 - A. Diff. Press. Across Fan Opening. (in. W.C.)
 - B. Flow through Fan(s). CFM 1790
 - c. Inside temperature 800 °F.
 - D. Outside temperature 682 °F.

NOTE: Steps 6.13.5 through 6.13.13 may be reperformed as necessary until acceptable results are obtained.

NOTE: IF the Retention time predicted for the minimum protected Height is less than the desired hold time, use the fan apparatus and a smoke pencil to find the leakage, and seal as necessary.

/n2.94

6.13.14 RECORD vendor calculation results of the equivalent leakage area (Sq. in.) using recorded data, and the retention time through use of the fan apparatus testing software, using the previously determined hold time and the minimum protected height.

Whole Room Leakage Aren 15,593.59 J. in.
BCLA 146.9 Sq. in.

17.0 Retention Time (≥ 10 minutes)

12.9.94

6.13.15 REMOVE Door Fan Apparatus from doorway.

1 129.94 CNOZ

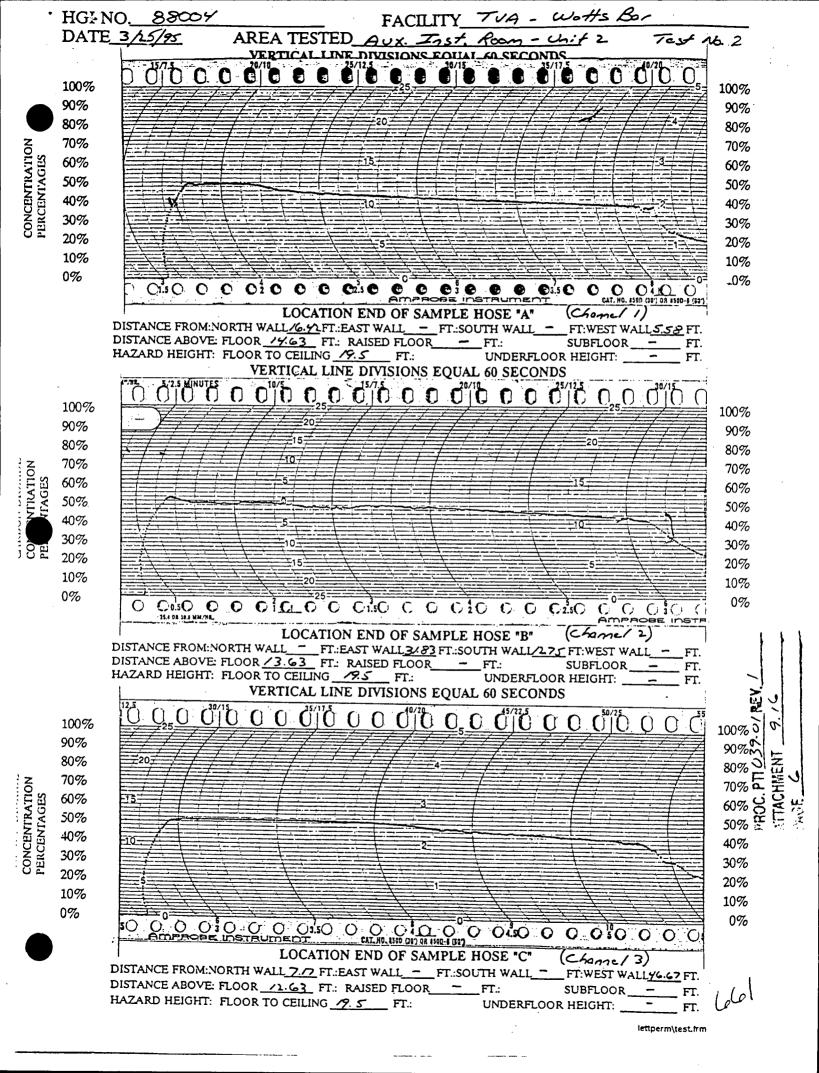
6.13.16 RETURN doors, fans, and dampers to NORMAL per Appendix 9.1.

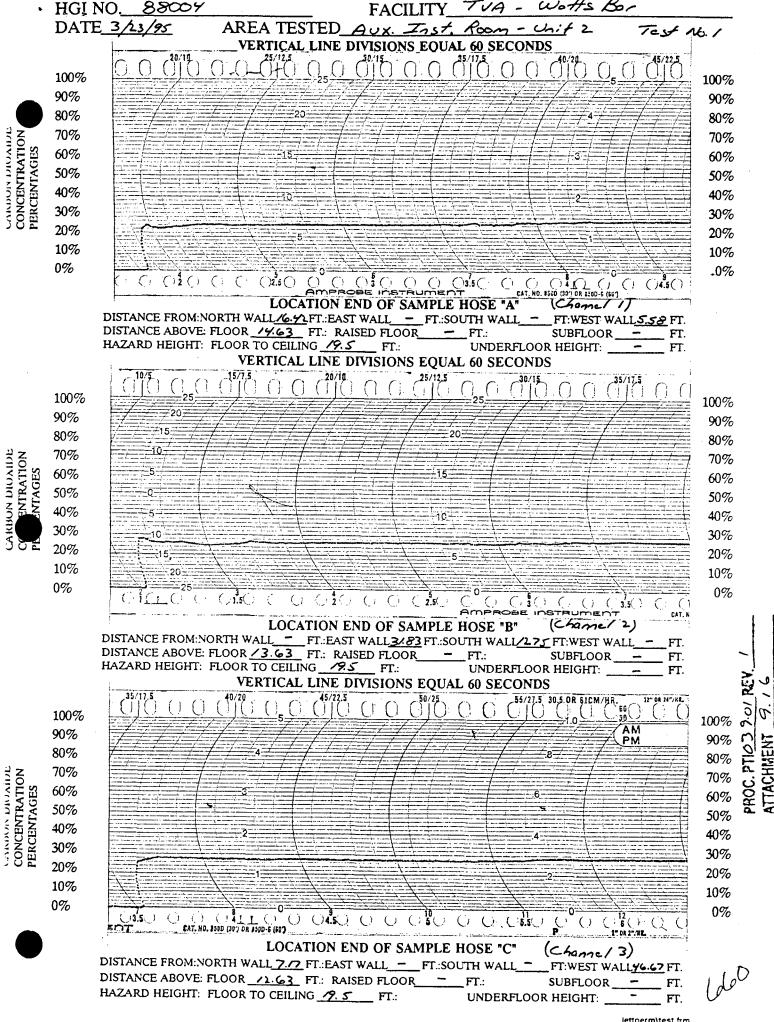
6.13.17 NOTIFY SOS that Door Fan Test in Generator Room 2B-B is COMPLETE.

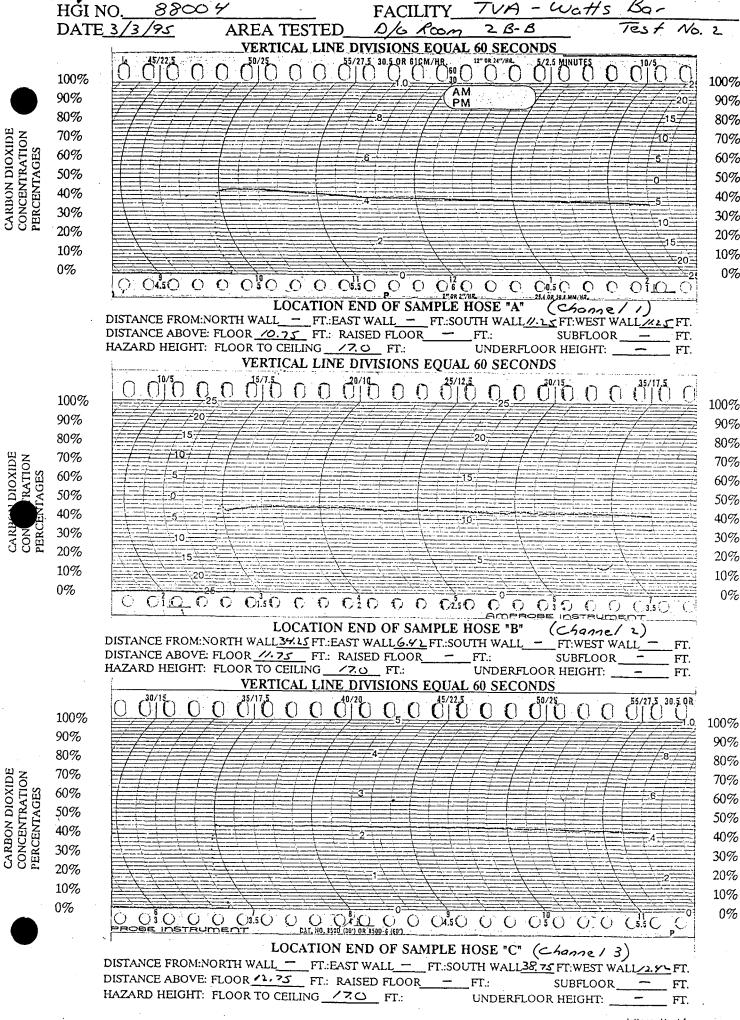
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ATTACHMENT 6

CO₂ CONCENTRATION TEST CHARTS







ENCLOSURE 2 WATTS BAR NUCLEAR PLANT (WBN) REPLY TO REQUEST FOR ADDITIONAL INFORMATION

COMMITMENT

1. TVA will revise the system design description for the CO_2 system supplying the auxiliary instrument rooms (Units 1 and 2) to include a minimum soak time. The soak time will be to maintain CO_2 concentration greater than 45% for at least 15 minutes. The revision will be completed by June 30, 1995.