STATEMENT OF WORK
ANNUAL CRITICAL CARE VENTILATION TAB & CERTIFICATION
WHITERIVER SERVICE UNIT

A. BACKGROUND

The Whiteriver Indian Health Service (WRSU) Hospital and Special Service Building (SSB) requires a contracting action for the procurement of annual ventilation assessment services to include Heating, Ventilation, Air Conditioning (HVAC) system Testing and Balancing (TAB). The scope of work detailed below outlines the required project outcomes. The Contractor shall be responsible for all necessary work to achieve required outcomes including labor, equipment, tools, personal protective equipment (PPE), policy adherence, infection control compliance, incidental design, travel, per diem, tribal fees, and other related expenses required to complete the project.

Locations:
Whiteriver Hospital and Special Service Building.
200 West Hospital Drive
Whiteriver, Arizona 85941

B. SUMMARY

The contractor shall perform the critical care ventilation certification to include all associated HVAC TAB requirements. The critical care ventilation certification shall provide a report including pressure, airflow, and air changes per hour (ACH) for the isolation rooms, soiled utility rooms, decontamination rooms, operating rooms, and the Central Sterile Receiving (CSR) room to illustrated compliance with the critical care ventilation requirements of ANSI/ASHRAE Standard 170-2008 (Ventilation for Healthcare Facilities), Facility Guidelines Institute – Guidelines for Design & Construction of Hear Care Facilities (Table 7-1 Design Parameters), and Joint Commission Environment of Care Physical Environment (PE) element of performance (PE) PE 04.01.03 Section 4. Whiteriver Hospital critical care areas requiring ventilation certifications are: 116, 151,152, 159, 185, 198, 199, 216, 218, 222, 231, 251, 317, 319, 319a, 529, and 546. SSB critical care areas requiring ventilation certifications are: 117, 175, and 176.

LOCATION	ROOM NUMBER	ROOM NAME
Hospital	116	Soil Room
Hospital	151	Operating Room
Hospital	152	Operating Room
Hospital	159	Soil Room
Hospital	185	Soil Room
Hospital	198	Central Sterile Room
Hospital	199	Central Sterile Room
Hospital	216	Patient Isolation Room
Hospital	218	Patient Isolation Room
Hospital	222	Patient Isolation Room
Hospital	231	Soil Room

Hospital	251	Central Sterile Room
Hospital	319	Patient Isolation Room
Hospital	319A	Patient Decontamination Room
Hospital	546	Soil Room
Hospital	317	Soil Room
Hospital	529	Soil Room
Special Service Building	117	Soil Room
Special Service Building	175	Dental Sterile Room
Special Service Building	176	Dental Clean Room

Service to be provided annually. Services and activities required in the operating rooms (151 and 152) shall occur on **Fridays** only.

C. DELIVERABLES

1. The contractor shall provide onsite:
   a. Room pressurization TAB certification at Table 1 for the following rooms: 116, 151, 152, 159, 185, 198, 199, 216, 218, 222, 231, 317, 319, 319a, 251, 117, 175, 176, and 546. Actions shall include measuring and documenting each registers actual airflow in Cubic Feet per Minute (CFM), room pressure, and ventilation adjustments so that each room has the designed pressure relationship per Table 1 of the ANSI/ASHRAE Standard 170-2008. Additionally, Contractors shall determine and document the supply-to-return airflow differential, room pressure relationship, and actual ACH.
   b. Air distribution testing at Table 2 for the following rooms: 151, 152, 198, 199, and 251. Actions shall include measuring each vents actual CFM airflow and adjusting the ventilation airflow to match as close as possible to the design airflow while maintaining the required room pressure requirements identified in Table 1.
   c. Variable Air Volume (VAV) with air distribution testing at Table 3 for the following rooms: 198, 199, and 251. Actions shall include measuring each vents actual CFM airflow and adjusting the ventilation airflow to match as close as possible to the design airflow while maintaining the required room pressure requirements identified in Table 1.
2. The contractor shall balance and make adjustments for each room identified above so that the designed pressure relationship is achieved. Balancing shall be accomplished via manual controls or via the building automation system (Automated Logic).
3. The contractor shall coordinate with the Contracting Officer Representative (COR) prior to arriving onsite to ensure they obtain a functioning Automated Logic account and login.
4. A report with tables similar to that in APPENDIX B shall be submitted. A copy of the Certificate of Calibration for **EACH** piece of equipment shall be provided with the report.

D. PERIOD OF PERFORMANCE

1. The ventilation assessment to include the testing and balancing shall occur annually.
2. Activities required in the Operating Room shall occur on **Fridays** only.
3. Facility day time hours of operation are 7:00 AM – 4:00 PM, Monday through Friday (excluding Federal holidays). Work outside of these hours must be requested in writing to the Contracting Officers Representative (COR).
4. Base Year plus Four Option Years. Dates will be determined upon the award of the contract by the Contracting Officer.

E. PLACE OF PERFORMANCE: All work shall be performed at the Whiteriver Service Unit (WRSU) located at 200 West Hospital Drive, Whiteriver, Arizona 85941.

F. CODES AND STANDARDS

1. The Contractor is responsible for securing all required permits and for ensuring compliance with all federal, state, tribal, and local codes and design standards, latest editions.
2. The Contractor shall adhere to the following code requirements for work performed, testing and inspections, including, but not limited to the Occupational Safety and Health Administration (OSHA) regulations, National Fire Protection Association (NFPA) standards NFPA 70, NFPA 99, NFPA 101, and NFPA 111.
3. The WRSU infection control policy shall be adhered to including the wearing of clean room scrub suits where required.
4. ANSI/ASHRAE Standard 170-2008, Ventilation for Healthcare Facilities
5. Facility Guidelines Institute – Guidelines for Design & Construction of Hear Care Facilities, Table 7-1 Design Parameters.
6. The Joint Commission - Environment of Care (PE) element of performance (EP) PE 04.01.03 Section 4.

WHITERIVER HOSPITAL POINTS OF CONTACT

Contracting Officer Representative (COR):
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GOVERNMENT SITE LOCATION MAP 1

Whiteriver Hospital, Garret Building, Administration, Garrett Building, Government Housing Site (Medicine City), and Facilities Site.
Latitude: 33.8765056
Longitude: -109.9597917

TABLE 1

ROOM PRESSURIZATION TEST & BALANCE

ROOM NUMBER	ROOM CU FT	ACTUAL CFM			CFM DIFF. Supply - Exhaust	DESIGN ACH	ACTUAL ACH	PRESSURE RELATIONSHIP		ROOM PRESSURE
		SUPPLY	RETURN	EXHAUST				DESIGN	ACTUAL	
Room 116 Soiled Utility	630					6		Negative		
Room 151 O.R. 1	4307					20		Positive		
Room 152 O.R. 2	3185					20		Positive		
Room 159 O.R. Soiled Utility	567					6		Negative		
Room 185 O.B. Soiled Utility	532					6		Negative		
Room 198 Central Sterile Receiving Dirty	1217					4		Negative		
Room 199 Central Sterile Receiving Ante Room	1305					10		Positive		
Room 216 FCU Isolation Room	1756					12		Negative		
Room 216 FCU Isolation Room Restroom	486					6		Negative		
Room 218 FCU Isolation Room	1756					12		Negative		
Room 218 FCU Isolation Room Restroom	486					6		Negative		
Room 222 FCU Isolation Room	1512					12		Negative		
Room 222 FCU Isolation Ante Room	424					10		Positive		
Room 222 FCU Isolation Room Restroom	337					6		Negative		
Room 231 Soiled Utility	891					6		Negative		
Room 251 Central Sterile Receiving	4291					4		Positive		
Room 317 Soiled Utility	693					6		Negative		
Room 319 Isolation Room	1260					12		Negative		
Room 319 Isolation Room Restroom	319					6		Negative		
Room 319a Decontamination Room	760					6		Negative		
Room 546 Clinic B Soiled Utility	495					6		Negative		

TABLE 2

AIR DISTRIBUTION TEST

SYSTEM	LOCATION	ROOM	TERMINAL SIZE		K	DESIGN	PRE-LIM	FINAL	NOTES
			NO	SIZE		CFM	TEST	CFM	
AH-9 Supply	OR 1	151	1	2 X 4	1.0	177			1
AH-9 Supply	OR 1	151	2	2 X 4	1.0	177			1
AH-9 Supply	OR 1	151	3	2 X 4	1.0	177			1
AH-9 Supply	OR 1	151	4	2 X 4	1.0	177			1
AH-9 Supply	OR 1	151	5	2 X 4	1.0	177			1
AH-9 Supply	OR 1	151	6	2 X 4	1.0	177			1
AH-9 Supply	OR 1	151	7	2 X 4	1.0	178			1
AH-9 Supply	OR 1	151	8	2 X 4	1.0	180			1
AH-9 Supply	OR 1	151	9	2 X 4	1.0	180			1
					Total:	**1600**			
AH-9 Return	OR 1	151	1	10 X 24	1.0	510			1
AH-9 Return	OR 1	151	2	10 X 24	1.0	510			1
					Total:	**1020**			
AH-9 Supply	OR 2	152	1	2 X 4	1.0	300			1
AH-9 Supply	OR 2	152	2	2 X 4	1.0	300			1
AH-9 Supply	OR 2	152	3	2 X 4	1.0	300			1
AH-9 Supply	OR 2	152	4	2 X 4	1.0	300			1
					Total:	**1200**			
AH-9 Return	OR 2	152	1	10 X 24	1.0	650			1
AH-9 Return	OR 2	152	2	10 X 24	1.0	650			1
					Total:	**1300**			
RTU-Supply	CSR Dirty	198	1	2 X 2	1.0	N/A			
RTU-Supply	CSR Ante	199	2	2 X 2	1.0	N/A			
RTU-Supply	CSR	251	3	2 X 2	1.0	N/A			
RTU-Supply	CSR	251	4	2 X 2	1.0	N/A			
RTU-Supply	CSR	251	5	2 X 2	1.0	N/A			
RTU-Supply	CSR	251	6	2 X 2	1.0	N/A			
					Total:	**N/A**			
Exhaust-CSR	CSR Ante	199	7	2 X 2	1.0	N/A			
Exhaust-CSR	CSR Ante	199	8	2 X 2	1.0	N/A			
Exhaust-CSR	CSR Dirty	198	9	2 X 2	1.0	N/A			
Exhaust-CSR	CSR Dirty	198	10	2 X 2	1.0	N/A			
Exhaust-CSR	CSR Dirty	198	11	2 X 2	1.0	N/A			
Exhaust-CSR	CSR	251	12	1 X 1	1.0	N/A			
Exhaust-CSR	CSR	251	13	1 X 1	1.0	N/A			
Exhaust-CSR	CSR	251	14	2 X 2	1.0	N/A			
Exhaust-CSR	CSR	251	16	2 X 2	1.0	N/A			
					Total:	**N/A**			

1. No access to balancing damper.

TABLE 3

VAV WITH AIR DISTRIBUTION TEST

TERMINAL UNIT #: VAV-EX18 **ASSOCIATED SYSTEM:** AH-6

ADDRESS: V-87

Room	Terminal		K	DESIGN CFM	TEST CFM	FINAL CFM
	No.	Size (Inch)				
198	3	2 X 2	1.0	200		
199	4	2 X 2	1.0	200		
251	1	2 X 2	1.0	350		
251	2	2 X 2	1.0	350		
			Total:	**1100**		