Riverside Energy Resource Center
Guaranteed Noise Level Inquiry

Equipment Name: SCR/CO ERU **Equip. List No.** N/A

Manufacturer: ATS/Express LLC

Mfrs. Model No. CHICAGO BLOWER

Notes: NOISE FOR TEMPERING AIR FANS

Contact Name: JIM ALFRED **Contact Phone:** 918-622-1420

The City of Riverside is considering selecting your equipment for the Riverside Energy Resource Center in the City of Riverside, California. Please provide the guaranteed noise levels of the equipment you are providing as requested below:

Please provide measured or estimated octave-band sound power levels:

Octave-Band Sound Power Level (Un-Weighted), dB (re: ~~20 micropascals~~) 1 PICOWAT									
31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
	104	102	98	94	93	85	81	81	

Measured ☐ Estimated ☒

Describe sound attenuation packages required to achieve these sound power levels:

VAW SYSTEMS INLET SILENCERS

Comments:
SEE FOLLOWING SHEETS 2, 3, 4 FROM SOUND TECHNOLOGIES.

2/4

Jim Alfred

From: Bob Fatt [rd_fatt@soundtech.us]
Sent: Thursday, March 25, 2004 4:57 PM
To: Jim Alfred
Subject: GE Riverside Temp Air Fan PWL STI No. 3272 3-25-04

Dear Jim,
Tempering Air Fan Total Sound Power Levels (dB, re: one picowatt)
Final line item of attached pdf file.
Shoudl questions arise, please don't hesitate to call

Best regards,
SOUND TECHNOLOGIES INC.
Bob Fatt
Office: 219-879-2600 Ext. 109
Fax: 219-879-2611
Cell: 219-477-7619
310 Commerce Square
Michigan City, IN 46360

3/4

SOUND TECHNOLOGIES INC.

CORPORATE OFFICE & MANUFACTURING: 310 Commerce Sq. Michigan City, Indiana 46360
Telephone (219) 879-2600 Fax: (219) 879-2611

STI's GAS TURBINE BYPASS AND/OR COMBINED CYCLE (HRSG) NOISE CONTROL EVALUATION PROGRAM

FILENAME	3272-CBC	REV	0	SECTION	C
PROPOSAL NO.	3272			PAGE	1
CLIENT	ATS EXPRESS				
PROJECT	GE RIVERSIDE				
DATE	03/25/04				

		WITH INLET DUCT SILEN(	NO
		WITH EX DUCT SILENCEF	NO
DESCRIPTION	DETERMINATION OF CASING RADIATED PWL's	WITH STACK SILENCER	NO
NUMBER OF UNITS	1		

		OCTAVE BAND CENTER FREQUENCY								
	LENGTH	31.5	63	125	250	500	1000	2000	4000	80000
FAN TOTAL PWL's		N/A	112	114	115	114	110	103	99	96
EXHAUST PWL's		N/A	109	111	112	111	107	100	96	93
INLET PWL's		N/A	109	111	112	111	107	100	96	93
INLET SILENCER I.L.		N/A	6	10	17	24	34	25	23	14
PANEL IL	NONE	0	0	0	0	0	0	0	0	0
CORRECTED TO DIFFUSE FIELD		N								
USE NUMBER OF	TOPS	2								
USE NUMBER OF	SIDES	2								

	DESIGNATION	PANELS	(W) INLET	(H) INLET	(W) OUT	(H) OUT	(L)	SqFt	TOP SqFt	SIDE SqFt	TOTAL SqFt
EXHAUST BOOT SIDE	0.25	N	1.0	2.2	1.0	2.2	0.7	2	1	1	3
EXHAUST BOOT TOP	0.25	N	1.0	2.2	1.0	2.2	0.7	2	1	1	1
TRANS 1 SIDE	0.25	N	1.0	2.2	1.5	2.5	2.6	3	3	6	12
TRANS 1 TOP	0.25	N	1.0	2.2	1.5	2.5	2.6	3	3	6	6
DAMPERS SIDE	0.25	N	1.5	2.5	1.5	2.5	3.7	4	6	9	18
DAMPERS TOP	0.25	N	1.5	2.5	1.5	2.5	3.7	4	6	9	11
TRANS 2 SIDE	0.25	N	1.5	2.5	2.7	2.5	3.2	5	7	8	16
TRANS 2 TOP	0.25	N	1.5	2.5	2.7	2.5	3.2	5	7	8	13

SOUND TECHNOLOGIES INC's computer generated "NOISE EVALUATION PROGRAM," as well as all data generated therefrom, is the result of proprietary algorithms and/or "R&D." Therefore, programs and resultant information remain the property of SOUND TECHNOLOGIES INC., and are on loan for your use.
Any reproduction, dissemination, or display of this information, to Others, not party to its initial intent, is strictly prohibited without the express written consent of STI.

SOUND TECHNOLOGIES INC.

CORPORATE OFFICE & MANUFACTURING: 310 Commerce Sq. Michigan City, Indiana 46360
Telephone (219) 879-2600 Fax: (219) 879-2611

STI's GAS TURBINE BYPASS AND/OR COMBINED CYCLE (HRSG) NOISE CONTROL EVALUATION PROGRAM

FILENAME	3272-CBC	REV	0	SECTION	C
PROPOSAL NO.	3272			PAGE	2
CLIENT	ATS EXPRESS				
PROJECT	GE RIVERSIDE				
DATE	03/25/04				

DETERMINATION OF SOUND POWER LEVELS

COMPONENT	OCTAVE BAND CENTER FREQUENCY (Hz) 31.5	63	125	250	500	1000	2000	4000	8000	RESULTS dBA	dBC
FAN TOTAL PWL's	N/A	112	114	115	114	110	103	99	96		
CASING T.L.	N/A	11	15	20	21	18	18	19	20		
FAN CASING RADIATED PWL's =		101	99	95	93	92	85	80	76	96	
FAN INLET PWL's	N/A	109	111	112	111	107	100	96	93		
SILENCER INSERTION LOSS	N/A	6	10	17	24	34	25	23	14		
END REFLECTION	N/A	10	5	2	0	0	0	0	0		
FAN INLET PWL's =		93	96	93	87	73	75	73	79	89	
EXHAUST DUCT PWL's											
EXHAUST BOOT SIDE	N/A	88	84	79	72	62	49	45	42		
EXHAUST BOOT TOP	N/A	84	80	75	68	58	45	41	38		
TRANS 1 SIDE	N/A	92	89	84	76	66	53	49	46		
TRANS 1 TOP	N/A	90	86	81	74	84	51	47	44		
DAMPERS SIDE	N/A	93	89	84	77	67	54	50	47		
DAMPERS TOP	N/A	91	87	82	75	65	52	48	45		
TRANS 2 SIDE	N/A	91	87	82	75	65	52	48	45		
TRANS 2 TOP	N/A	90	86	81	74	64	51	47	44		
T2 SIDES	N/A	0	0	0	0	0	0	0	0		
T2 TOP	N/A	0	0	0	0	0	0	0	0		
EXHAUST DUCT PWL's =		100	96	91	84	85	61	57	54	88	
TOTAL FAN PWL's =		**104**	**102**	**98**	**94**	**93**	**85**	**81**	**81**	**97**	

SOUND TECHNOLOGIES INC's computer generated "NOISE EVALUATION PROGRAM," as well as all data generated therefrom, is the result of proprietary algorithms and/or "R&D." Therefore, programs and resultant information remain the property of SOUND TECHNOLOGIES INC., and are on loan for your use.
Any reproduction, dissemination, or display of this information, to Others, not party to its initial intent, is strictly prohibited without the express written consent of STI.