Russell City Energy Center

Appendix 8.7-A
Modeling Parameters and Results for Noise Receptor Locations

May 2001

Russell City Energy Center AFC

May 2001

PLANT NOISE EMISSIONS MODEL - STEADY STATE BASE LOAD OPERATION

Hessler Associates, Inc.
Consultants in Engineering Acoustics

PROJECT: **RUSSELL CITY ENERGY CENTER**
LOCATION: RUSSELL CITY, CA
JOB NO: 24405-002

MODEL RUN: **1**
RUN DATE: **2/7/01**
RECEPTOR: **2. DEPOT AND INDUSTRIAL ROADS - 1.5 km NE OF PLANT**
DESCRIPTION: **STANDARD PLANT NOISE EMISSIONS**
SITE PLAN: DRWG. 24405-002 P1-0010-001 REV B (2/27/01)

RECEPTOR X: 1266 m
RECEPTOR Y: 822 m

Radial Dist., m	Angle, deg.			
1510	**33**	46.5	Ldn	**40.9** dBA

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
SOURCE NUMBER	SOURCE DESCRIPTION	SOURCE QTY	SOURCE HGT, m	SOURCE TYPE	LOCATION X, m	LOCATION Y, m	MEAS/*EST* Lw dBA re 1 pW	RECEPTOR DISTANCE, m	EST. SHIELDING ATTENUATION	ESTIMATED DIRECTIVITY	ESTIMATED GROUND ABS.	ANOMAL. ATTENUATION	NOISE ABATEMENT	DISTANCE CORRECTION	AIR ABSORP. 15°C/70% RH	QTY CORR.	**EXPECTED LEVEL AT RECEPTOR**	**Lp> 30**
1	E UNIT GT TRANSFORMER	1	3	1	54	89	102	1417	-1	0	-2.7	-4.4	0	-71.0	-3.0	0	**20**	
2	E UNIT GT AIR INLET	1	7	1	62	59	95	1426	-3	0	-2.6	-4.4	0	-71.1	-3.0	0	**11**	
3	E UNIT GT AIR INLET DUCT	1	7	1	46	57	104	1440	-2	0	-2.6	-4.5	0	-71.2	-3.0	0	**21**	
4	E UNIT GT GENERATOR	1	6	1	41	62	107	1442	-1	0	-2.6	-4.5	0	-71.2	-3.0	0	**25**	
5	E UNIT GT ENCLOSURE	1	5	1	41	50	107	1449	-5	0	-2.7	-4.5	0	-71.2	-3.1	0	**21**	
6	E UNIT EXHAUST DUCT	1	4	1	41	42	105	1453	-5	0	-2.7	-4.5	0	-71.2	-3.1	0	**19**	
7	E UNIT HRSG INLET SIDE	1	8	2	41	29	108	1460	-1	0	-2.6	-4.5	0	-68.3	-3.1	0	**29**	
8	E UNIT HRSG SIDE WALL	1	12	2	41	14	102	1468	0	0	-2.6	-4.5	0	-68.3	-3.1	0	**23**	
9	E UNIT HRSG STACK (0° DIR.)	1	53	1	41	0	110	1476	0	-6	-2.1	-4.6	0	-71.4	-3.1	0	**23**	
10	E UNIT STEAM LINES	1	15	1	41	17	102	1466	0	0	-2.5	-4.5	0	-71.3	-3.1	0	**21**	
11	E UNIT PIPE RACK STEAM LINES	1	14	1	52	17	105	1457	0	0	-2.6	-4.5	0	-71.3	-3.1	0	**24**	
12	E UNIT BURNER CONTROL SKID	1	1	1	53	22	*115*	1454	-8	0	-2.7	-4.5	0	-71.2	-3.1	0	**25**	
13	E UNIT CT ENCL. VENT FANS	2	7	1	41	54	*102*	1446	-2	0	-2.6	-4.5	0	-71.2	-3.0	3	**22**	
14	E UNIT BFP BLDG.	1	3	1	56	6	*95*	1461	0	0	-2.7	-4.5	0	-71.3	-3.1	0	**13**	
15	W UNIT GT TRANSFORMER	1	3	1	12	89	102	1453	0	0	-2.7	-4.5	0	-71.2	-3.1	0	**21**	
16	W UNIT GT AIR INLET	1	7	1	21	59	95	1461	-2	0	-2.6	-4.5	0	-71.3	-3.1	0	**11**	
17	W UNIT GT AIR INLET DUCT	1	7	1	5	57	104	1475	-4	0	-2.6	-4.6	0	-71.4	-3.1	0	**18**	
18	W UNIT GT GENERATOR	1	6	1	0	62	107	1477	-4	0	-2.6	-4.6	0	-71.4	-3.1	0	**21**	
19	W UNIT GT ENCLOSURE	1	5	1	0	50	107	1483	-5	0	-2.7	-4.6	0	-71.4	-3.1	0	**20**	
20	W UNIT EXHAUST DUCT	1	4	1	0	42	105	1487	-4	0	-2.7	-4.6	0	-71.4	-3.1	0	**19**	
21	W UNIT HRSG INLET SIDE	1	8	2	0	29	108	1495	-2	0	-2.6	-4.6	0	-68.5	-3.1	0	**27**	
22	W UNIT HRSG SIDE WALL	1	12	2	0	14	102	1502	-3	0	-2.6	-4.7	0	-68.5	-3.2	0	**20**	
23	W UNIT HRSG STACK (0° DIR.)	1	53	1	0	0	110	1510	0	-6	-2.1	-4.7	0	-71.6	-3.2	0	**22**	
24	W UNIT STEAM LINES	1	15	1	0	17	102	1501	0	0	-2.5	-4.7	0	-71.5	-3.2	0	**20**	
25	W UNIT PIPE RACK STEAM LINES	1	14	1	11	17	105	1492	-1	0	-2.6	-4.6	0	-71.5	-3.1	0	**22**	
26	W UNIT BURNER CONTROL SKID	1	1	1	11	22	*115*	1488	-13	0	-2.7	-4.6	0	-71.4	-3.1	0	**20**	
27	W UNIT CT ENCL. VENT FANS	2	7	1	0	54	*102*	1481	-2	0	-2.6	-4.6	0	-71.4	-3.1	3	**21**	
28	W UNIT BFP/CHEM FEED BLDG	1	3	1	14	6	*95*	1495	-7	0	-2.7	-4.6	0	-71.5	-3.1	0	**6**	
29	AIR COMPRESSOR SKIDS	2	2	1	20	19	89	1483	-11	0	-2.7	-4.6	0	-71.4	-3.1	3	**0**	
30	GAS COMPRESSOR BLDG	1	4	1	86	-17	*110*	1448	0	0	-2.7	-4.5	0	-71.2	-3.1	0	**29**	
31	WATER TREAT/WHSE VENT FANS	8	10	1	96	35	*85*	1411	0	0	-2.6	-4.4	0	-71.0	-3.0	9	**13**	
32	STEAM TURBINE	1	6	1	-32	48	107	1512	0	0	-2.6	-4.7	0	-71.6	-3.2	0	**25**	
33	ST GENERATOR	1	6	1	-32	62	107	1504	0	0	-2.6	-4.7	0	-71.5	-3.2	0	**25**	
34	CONDENSER AREA E FACE	1	5	2	-20	53	113	1499	-5	0	-2.7	-4.6	0	-68.5	-3.1	0	**29**	
35	CONDENSER AREA N FACE	2	5	2	-32	77	113	1497	-1	-4	-2.7	-4.6	0	-68.5	-3.1	3	**32**	32
36	CONDENSER AREA W FACE	1	7	1	-44	53	116	1520	-2	-20	-2.6	-4.7	0	-71.6	-3.2	0	**12**	
37	CONDENSER AREA S FACE	1	1	1	-32	29	111	1521	-8	-7	-2.7	-4.7	0	-71.6	-3.2	0	**14**	
38	ST TRANSFORMER	1	3	1	-23	86	102	1485	0	0	-2.7	-4.6	0	-71.4	-3.1	0	**20**	
39	CIRC. WATER PUMPS	2	5	1	-65	2	108	1564	-15	0	-2.7	-4.8	0	-71.9	-3.3	3	**13**	
40	COOLING TOWER EXHAUSTS	10	21	1	-65	93	106	1518	0	0	-2.5	-4.7	0	-71.6	-3.2	10	**34**	34
41	COOLING TOWER W. WET INLETS	10	4	2	-75	93	99	1527	0	-20	-2.7	-4.7	0	-68.6	-3.2	10	**10**	
42	COOLING TOWER W. DRY INLETS	10	14	2	-75	93	99	1527	0	-20	-2.6	-4.7	0	-68.6	-3.2	10	**10**	
43	COOLING TOWER E. WET INLETS	10	4	2	-57	93	99	1512	-3	0	-2.7	-4.7	0	-68.6	-3.2	10	**27**	
44	COOLING TOWER E. DRY INLETS	10	14	2	-57	93	99	1512	-1	0	-2.6	-4.7	0	-68.6	-3.2	10	**29**	

TOTAL EXPECTED PLANT SOUND PRESSURE LEVEL AT RECEPTOR POSITION, dBA: 41

ESTIMATED RECEPTOR ELEV. REL. TO PLANT BASELINE 1.5 m

ESTIMATED GROUND POROSITY (0-1) 0.9 LOW BUILDINGS/INTERVENING STRUCTURES

NOTES:
SOURCE LEVELS EXPRESSED IN TERMS OF A-WTD SOUND POWER LEVEL, dBA re 1 pW
ANOMALOUS ATTENUATION BASED ON NEUTRAL WEATHER/WIND CONDITIONS PER EEI GUIDE
UNLESS NOTED ALL SOURCE LEVELS BASED DIRECTLY ON, OR EXTRAPOLOATED FROM, FIELD MEASUREMENTS OF SIMILAR EQUIPMENT

SOURCE TYPE RADIATION PATTERNS:

PLANT NOISE EMISSIONS MODEL - STEADY STATE BASE LOAD OPERATION

Hessler Associates, Inc.
Consultants in Engineering Acoustics

PROJECT: **RUSSELL CITY ENERGY CENTER**
LOCATION: RUSSELL CITY, CA
JOB NO: 24405-002

MODEL RUN: 1
RUN DATE: 2/7/01
RECEPTOR: **3. WATERFORD APTS. - 1.6 km E OF PLANT**
DESCRIPTION: **STANDARD PLANT NOISE EMISSIONS**
SITE PLAN: DRWG. 24405-002 P1-0010-001 REV B (2/27/01)

RECEPTOR X: 1567 m
RECEPTOR Y: 449 m

Radial Dist., m	Angle, deg.			
1630	**16**	45.0	Ldn	**39.4** dBA

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
SOURCE NUMBER	SOURCE DESCRIPTION	SOURCE QTY	SOURCE HGT, m	SOURCE TYPE	LOCATION X, m	LOCATION Y, m	MEAS/EST Lw dBA re 1 pW	RECEPTOR DISTANCE, m	EST. SHIELDING ATTENUATION	ESTIMATED DIRECTIVITY	ESTIMATED GROUND ABS.	ANOMAL. ATTENUATION	NOISE ABATEMENT	DISTANCE CORRECTION	AIR ABSORP. 15°C/70% RH	QTY CORR.	**EXPECTED LEVEL AT RECEPTOR**	**Lp> 30**
1	E UNIT GT TRANSFORMER	1	3	1	54	89	102	1556	-1	0	-2.7	-4.8	0	-71.8	-3.3	0	**18**	
2	E UNIT GT AIR INLET	1	7	1	62	59	95	1554	-3	0	-2.6	-4.8	0	-71.8	-3.3	0	**9**	
3	E UNIT GT AIR INLET DUCT	1	7	1	46	57	104	1571	-2	0	-2.6	-4.9	0	-71.9	-3.3	0	**19**	
4	E UNIT GT GENERATOR	1	6	1	41	62	107	1574	-1	0	-2.7	-4.9	0	-71.9	-3.3	0	**23**	
5	E UNIT GT ENCLOSURE	1	5	1	41	50	107	1577	-5	0	-2.7	-4.9	0	-71.9	-3.3	0	**19**	
6	E UNIT EXHAUST DUCT	1	4	1	41	42	105	1579	-5	0	-2.7	-4.9	0	-72.0	-3.3	0	**17**	
7	E UNIT HRSG INLET SIDE	1	8	2	41	29	108	1583	-1	0	-2.6	-4.9	0	-69.0	-3.3	0	**27**	
8	E UNIT HRSG SIDE WALL	1	12	2	41	14	102	1586	0	0	-2.6	-4.9	0	-69.0	-3.3	0	**22**	
9	E UNIT HRSG STACK (0° DIR.)	1	53	1	41	0	110	1590	0	-6	-2.1	-4.9	0	-72.0	-3.3	0	**21**	
10	E UNIT STEAM LINES	1	15	1	41	17	102	1586	0	0	-2.6	-4.9	0	-72.0	-3.3	0	**19**	
11	E UNIT PIPE RACK STEAM LINES	1	14	1	52	17	105	1576	0	0	-2.6	-4.9	0	-71.9	-3.3	0	**22**	
12	E UNIT BURNER CONTROL SKID	1	1	1	53	22	*115*	1573	-8	0	-2.7	-4.9	0	-71.9	-3.3	0	**24**	
13	E UNIT CT ENCL. VENT FANS	2	7	1	41	54	*102*	1576	-2	0	-2.6	-4.9	0	-71.9	-3.3	3	**20**	
14	E UNIT BFP BLDG.	1	3	1	56	6	*95*	1575	0	0	-2.7	-4.9	0	-71.9	-3.3	0	**12**	
15	W UNIT GT TRANSFORMER	1	3	1	12	89	102	1596	0	0	-2.7	-4.9	0	-72.0	-3.3	0	**19**	
16	W UNIT GT AIR INLET	1	7	1	21	59	95	1594	-2	0	-2.6	-4.9	0	-72.0	-3.3	0	**10**	
17	W UNIT GT AIR INLET DUCT	1	7	1	5	57	104	1610	-4	0	-2.6	-5.0	0	-72.1	-3.4	0	**17**	
18	W UNIT GT GENERATOR	1	6	1	0	62	107	1614	-4	0	-2.7	-5.0	0	-72.1	-3.4	0	**20**	
19	W UNIT GT ENCLOSURE	1	5	1	0	50	107	1617	-5	0	-2.7	-5.0	0	-72.2	-3.4	0	**19**	
20	W UNIT EXHAUST DUCT	1	4	1	0	42	105	1619	-4	0	-2.7	-5.0	0	-72.2	-3.4	0	**18**	
21	W UNIT HRSG INLET SIDE	1	8	2	0	29	108	1622	-2	0	-2.6	-5.0	0	-69.2	-3.4	0	**26**	
22	W UNIT HRSG SIDE WALL	1	12	2	0	14	102	1626	-3	0	-2.6	-5.0	0	-69.2	-3.4	0	**19**	
23	W UNIT HRSG STACK (0° DIR.)	1	53	1	0	0	110	1630	0	-6	-2.2	-5.1	0	-72.2	-3.4	0	**21**	
24	W UNIT STEAM LINES	1	15	1	0	17	102	1625	0	0	-2.6	-5.0	0	-72.2	-3.4	0	**19**	
25	W UNIT PIPE RACK STEAM LINES	1	14	1	11	17	105	1615	-1	0	-2.6	-5.0	0	-72.1	-3.4	0	**21**	
26	W UNIT BURNER CONTROL SKID	1	1	1	11	22	*115*	1613	-13	0	-2.7	-5.0	0	-72.1	-3.4	0	**19**	
27	W UNIT CT ENCL. VENT FANS	2	7	1	0	54	*102*	1616	-2	0	-2.6	-5.0	0	-72.2	-3.4	3	**20**	
28	W UNIT BFP/CHEM FEED BLDG	1	3	1	14	6	*95*	1615	-7	0	-2.7	-5.0	0	-72.1	-3.4	0	**5**	
29	AIR COMPRESSOR SKIDS	2	2	1	20	19	89	1605	-11	0	-2.7	-5.0	0	-72.1	-3.4	3	**0**	
30	GAS COMPRESSOR BLDG	1	4	1	86	-17	*110*	1552	0	0	-2.7	-4.8	0	-71.8	-3.2	0	**27**	
31	WATER TREAT/WHSE VENT FANS	8	10	1	96	35	*85*	1528	0	0	-2.6	-4.7	0	-71.7	-3.2	9	**12**	
32	STEAM TURBINE	1	6	1	-32	48	107	1648	0	0	-2.7	-5.1	0	-72.3	-3.4	0	**23**	
33	ST GENERATOR	1	6	1	-32	62	107	1645	0	0	-2.7	-5.1	0	-72.3	-3.4	0	**24**	
34	CONDENSER AREA E FACE	1	5	2	-20	53	113	1636	-5	0	-2.7	-5.1	0	-69.2	-3.4	0	**28**	
35	CONDENSER AREA N FACE	2	5	2	-32	77	113	1641	-1	-4	-2.7	-5.1	0	-69.3	-3.4	3	**31**	31
36	CONDENSER AREA W FACE	1	7	1	-44	53	116	1659	-2	-20	-2.6	-5.1	0	-72.4	-3.5	0	**10**	
37	CONDENSER AREA S FACE	1	1	1	-32	29	111	1653	-8	-7	-2.7	-5.1	0	-72.3	-3.4	0	**12**	
38	ST TRANSFORMER	1	3	1	-23	86	102	1631	0	0	-2.7	-5.1	0	-72.2	-3.4	0	**19**	
39	CIRC. WATER PUMPS	2	5	1	-65	2	108	1692	-15	0	-2.7	-5.2	0	-72.6	-3.5	3	**12**	
40	COOLING TOWER EXHAUSTS	10	21	1	-65	93	106	1670	0	0	-2.5	-5.2	0	-72.4	-3.5	10	**32**	32
41	COOLING TOWER W. WET INLETS	10	4	2	-75	93	99	1680	0	-20	-2.7	-5.2	0	-69.5	-3.5	10	**8**	
42	COOLING TOWER W. DRY INLETS	10	14	2	-75	93	99	1680	0	-20	-2.6	-5.2	0	-69.5	-3.5	10	**8**	
43	COOLING TOWER E. WET INLETS	10	4	2	-57	93	99	1663	-3	0	-2.7	-5.2	0	-69.4	-3.5	10	**25**	
44	COOLING TOWER E. DRY INLETS	10	14	2	-57	93	99	1663	-1	0	-2.6	-5.2	0	-69.4	-3.5	10	**27**	

TOTAL EXPECTED PLANT SOUND PRESSURE LEVEL AT RECEPTOR POSITION, dBA: 39

ESTIMATED RECEPTOR ELEV. REL. TO PLANT BASELINE: 1.5 m

ESTIMATED GROUND POROSITY (0-1): 0.9 LOW BUILDINGS/INTERVENING STRUCTURES

NOTES:
SOURCE LEVELS EXPRESSED IN TERMS OF A-WTD SOUND POWER LEVEL, dBA re 1 pW
ANOMALOUS ATTENUATION BASED ON NEUTRAL WEATHER/WIND CONDITIONS PER EEI GUIDE
UNLESS NOTED ALL SOURCE LEVELS BASED DIRECTLY ON, OR EXTRAPOLOATED FROM, FIELD MEASUREMENTS OF SIMILAR EQUIPMENT

SOURCE TYPE RADIATION PATTERNS:

PLANT NOISE EMISSIONS MODEL - STEADY STATE BASE LOAD OPERATION

Hessler Associates, Inc.
Consultants in Engineering Acoustics

PROJECT: **RUSSELL CITY ENERGY CENTER**
LOCATION: RUSSELL CITY, CA
JOB NO: 24405-002

MODEL RUN: **1**
RUN DATE: **2/7/01**

RECEPTOR X: -543 m
RECEPTOR Y: -904 m

Radial Dist., m	Angle, deg.			
1055	**239**	51.7	Ldn	**46.1** dBA

RECEPTOR: **4. HAYWARD SHORELINE INTERPRETIVE CENTER - 1 km SW OF PLANT**
DESCRIPTION: **STANDARD PLANT NOISE EMISSIONS**
SITE PLAN: DRWG. 24405-002 P1-0010-001 REV B (2/27/01)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
SOURCE NUMBER	SOURCE DESCRIPTION	SOURCE QTY	SOURCE HGT, m	SOURCE TYPE	LOCATION X, m	LOCATION Y, m	MEAS/*EST* Lw dBA re 1 pW	RECEPTOR DISTANCE, m	EST. SHIELDING ATTENUATION	ESTIMATED DIRECTIVITY	ESTIMATED GROUND ABS.	ANOMAL. ATTENUATION	NOISE ABATEMENT	DISTANCE CORRECTION	AIR ABSORP. 15°C/70% RH	QTY CORR.	**EXPECTED LEVEL AT RECEPTOR**	**Lp> 30**
1	E UNIT GT TRANSFORMER	1	3	1	54	89	102	1159	-15	0	-1.8	-3.6	0	-69.3	-2.5	0	**10**	
2	E UNIT GT AIR INLET	1	7	1	62	59	95	1138	-14	0	-1.7	-3.5	0	-69.1	-2.5	0	**4**	
3	E UNIT GT AIR INLET DUCT	1	7	1	46	57	104	1128	-12	0	-1.7	-3.5	0	-69.0	-2.4	0	**15**	
4	E UNIT GT GENERATOR	1	6	1	41	62	107	1130	-8	0	-1.8	-3.5	0	-69.0	-2.4	0	**22**	
5	E UNIT GT ENCLOSURE	1	5	1	41	50	107	1119	-7	0	-1.8	-3.5	0	-69.0	-2.4	0	**23**	
6	E UNIT EXHAUST DUCT	1	4	1	41	42	105	1112	-6	0	-1.8	-3.4	0	-68.9	-2.4	0	**22**	
7	E UNIT HRSG INLET SIDE	1	8	2	41	29	108	1101	-1	-3	-1.7	-3.4	0	-65.8	-2.4	0	**31**	31
8	E UNIT HRSG SIDE WALL	1	12	2	41	14	102	1089	0	-2	-1.7	-3.4	0	-65.7	-2.4	0	**27**	
9	E UNIT HRSG STACK (0° DIR.)	1	53	1	41	0	110	1077	0	-6	-1.3	-3.3	0	-68.6	-2.3	0	**28**	
10	E UNIT STEAM LINES	1	15	1	41	17	102	1091	0	0	-1.7	-3.4	0	-68.7	-2.4	0	**26**	
11	E UNIT PIPE RACK STEAM LINES	1	14	1	52	17	105	1097	-4	0	-1.7	-3.4	0	-68.8	-2.4	0	**25**	
12	E UNIT BURNER CONTROL SKID	1	1	1	53	22	*115*	1101	-15	0	-1.8	-3.4	0	-68.8	-2.4	0	**24**	
13	E UNIT CT ENCL. VENT FANS	2	7	1	41	54	*102*	1122	-1	0	-1.7	-3.5	0	-69.0	-2.4	3	**27**	
14	E UNIT BFP BLDG.	1	3	1	56	6	*95*	1089	0	0	-1.8	-3.4	0	-68.7	-2.4	0	**19**	
15	W UNIT GT TRANSFORMER	1	3	1	12	89	102	1138	-15	0	-1.8	-3.5	0	-69.1	-2.5	0	**10**	
16	W UNIT GT AIR INLET	1	7	1	21	59	95	1117	-14	0	-1.7	-3.5	0	-68.9	-2.4	0	**4**	
17	W UNIT GT AIR INLET DUCT	1	7	1	5	57	104	1107	-9	0	-1.7	-3.4	0	-68.9	-2.4	0	**19**	
18	W UNIT GT GENERATOR	1	6	1	0	62	107	1109	-2	0	-1.8	-3.4	0	-68.9	-2.4	0	**29**	
19	W UNIT GT ENCLOSURE	1	5	1	0	50	107	1098	-2	0	-1.8	-3.4	0	-68.8	-2.4	0	**29**	
20	W UNIT EXHAUST DUCT	1	4	1	0	42	105	1091	-1	0	-1.8	-3.4	0	-68.7	-2.4	0	**28**	
21	W UNIT HRSG INLET SIDE	1	8	2	0	29	108	1080	0	-3	-1.7	-3.3	0	-65.6	-2.4	0	**32**	32
22	W UNIT HRSG SIDE WALL	1	12	2	0	14	102	1067	0	-2	-1.7	-3.3	0	-65.5	-2.3	0	**27**	
23	W UNIT HRSG STACK (0° DIR.)	1	53	1	0	0	110	1055	0	-6	-1.2	-3.3	0	-68.4	-2.3	0	**28**	
24	W UNIT STEAM LINES	1	15	1	0	17	102	1070	0	0	-1.7	-3.3	0	-68.6	-2.3	0	**26**	
25	W UNIT PIPE RACK STEAM LINES	1	14	1	11	17	105	1075	-3	0	-1.7	-3.3	0	-68.6	-2.3	0	**26**	
26	W UNIT BURNER CONTROL SKID	1	1	1	11	22	*115*	1080	-7	0	-1.8	-3.3	0	-68.6	-2.4	0	**32**	32
27	W UNIT CT ENCL. VENT FANS	2	7	1	0	54	*102*	1101	-1	0	-1.7	-3.4	0	-68.8	-2.4	3	**28**	
28	W UNIT BFP/CHEM FEED BLDG	1	3	1	14	6	*95*	1067	0	0	-1.8	-3.3	0	-68.5	-2.3	0	**19**	
29	AIR COMPRESSOR SKIDS	2	2	1	20	19	89	1082	-2	0	-1.8	-3.4	0	-68.7	-2.4	3	**14**	
30	GAS COMPRESSOR BLDG	1	4	1	86	-17	*110*	1088	0	0	-1.8	-3.4	0	-68.7	-2.4	0	**34**	34
31	WATER TREAT/WHSE VENT FANS	8	10	1	96	35	*85*	1136	-1	0	-1.7	-3.5	0	-69.1	-2.5	9	**16**	
32	STEAM TURBINE	1	6	1	-32	48	107	1081	0	0	-1.8	-3.4	0	-68.7	-2.4	0	**31**	31
33	ST GENERATOR	1	6	1	-32	62	107	1094	0	-3	-1.8	-3.4	0	-68.8	-2.4	0	**28**	
34	CONDENSER AREA E FACE	1	5	2	-20	53	113	1091	0	-8	-1.8	-3.4	0	-65.7	-2.4	0	**32**	32
35	CONDENSER AREA N FACE	2	5	2	-32	77	113	1106	0	-20	-1.8	-3.4	0	-65.8	-2.4	3	**23**	
36	CONDENSER AREA W FACE	1	7	1	-44	53	116	1079	-3	-4	-1.7	-3.3	0	-68.6	-2.4	0	**33**	33
37	CONDENSER AREA S FACE	1	1	1	-32	29	111	1064	0	0	-1.8	-3.3	0	-68.5	-2.3	0	**35**	35
38	ST TRANSFORMER	1	3	1	-23	86	102	1119	-15	0	-1.8	-3.5	0	-69.0	-2.4	0	**10**	
39	CIRC. WATER PUMPS	2	5	1	-65	2	108	1025	0	0	-1.8	-3.2	0	-68.2	-2.2	3	**36**	36
40	COOLING TOWER EXHAUSTS	10	21	1	-65	93	106	1106	0	0	-1.6	-3.4	0	-68.9	-2.4	10	**40**	40
41	COOLING TOWER W. WET INLETS	10	4	2	-75	93	99	1102	0	-4	-1.8	-3.4	0	-65.8	-2.4	10	**32**	32
42	COOLING TOWER W. DRY INLETS	10	14	2	-75	93	99	1102	0	-4	-1.7	-3.4	0	-65.8	-2.4	10	**32**	32
43	COOLING TOWER E. WET INLETS	10	4	2	-57	93	99	1109	0	-9	-1.8	-3.4	0	-65.9	-2.4	10	**27**	
44	COOLING TOWER E. DRY INLETS	10	14	2	-57	93	99	1109	0	-9	-1.7	-3.4	0	-65.9	-2.4	10	**27**	

TOTAL EXPECTED PLANT SOUND PRESSURE LEVEL AT RECEPTOR POSITION, dBA: 46

ESTIMATED RECEPTOR ELEV. REL. TO PLANT BASELINE 1.5 m

ESTIMATED GROUND POROSITY (0-1) 0.6 GRASS/DRY MARSHES

NOTES:
SOURCE LEVELS EXPRESSED IN TERMS OF A-WTD SOUND POWER LEVEL, dBA re 1 pW
ANOMALOUS ATTENUATION BASED ON NEUTRAL WEATHER/WIND CONDITIONS PER EEI GUIDE
UNLESS NOTED ALL SOURCE LEVELS BASED DIRECTLY ON, OR EXTRAPOLOATED FROM, FIELD MEASUREMENTS OF SIMILAR EQUIPMENT

Russell City Energy Center

Appendix 8.7-B
Noise Complaint Resolution Form

May 2001

Russell City Energy Center AFC

May 2001

Appendix 8.7-B. Noise Complaint Resolution Form.

NOISE COMPLAINT RESOLUTION FORM **RUSSELL CITY ENERGY CENTER** **HAYWARD, CALIFORNIA**
Complainant's name and address:
Date complaint received: Time complaint received:
Nature of noise complaint:
Definition of problem after investigation by plant personnel:
Initial noise levels at 3 feet: _____ dBA Initial noise levels at the complainant's property: _____ dBA Final noise levels at 3 feet: _____ dBA Final noise levels at the complainant's property: _____ dBA
Description of corrective measures taken:
This information is certified to be correct: Plant Manager's Signature
Approximate installed cost of corrective measures: Date installation completed: Date first letter sent to complainant: (copy attached) Date final letter sent to complainant: (copy attached) *(Attach additional pages and supporting documentation, as required.)*

Russell City Energy Center AFC

May 2001