County Building/Grading Permits

COUNTY OF CASS COUNTY, MISSOURI
BUILDING CODES DEPARTMENT

102 East Wall Street Harrisonville, MO 64701
Phone: (816) 380-8134 Fax: (816) 380-8130

CONSTRUCTION PERMIT

PERMIT NO 25012

for inspections call 380-8134 (K.C.line)

Project Control No: 250109
Application Date: 1/14/2005

Date Permit Issued: 1/19/2005

JOB ADDRESS: 24400 | S | Harper | Rd | **Post Office:** Peculiar

S / T / R	QTR-QTR SEC	PARCEL NO	LOT	BLOCK	SUB DIVISION
32/45/32					

Project Name:

Use Of Building: Temp Non Residential Service Use Code: 410

Applicant ID:

Applicant Person or Firm: Kissick Construction Company Applicant Code: 2

APPLICANT NAME			ADDRESS	CITY	STATE	ZIP CODE
Pete	B	Brown	8131 Indiana Ave	Kansas City	Mo	64132

Phone: 816-363-5530 Fax: Mobile: 816-560-7424 Alternate Phone:

OWNER	ADDRESS	CITY	STATE	ZIP	PHONE

DESCRIPTION OF WORK TO BE PERFORMED:

To install temporary power as per submitted plans and all applicable building codes and county ordinances.

WORK INCLUDED IN SCOPE OF WORK COVERED BY PERMIT

Electrical: Plumbing: Mechanical: Electrical Service: -1 Gas Piping: Other:

Type of Building: Industrial Class of Work: Alter Occupancy Group: I-1 Type of Construction:

Zoning District: Zoning File No: Flood Plain Map Panel: Flood Plain Development Permit:

Gross Building Area: 0 Stories or Bldg Height: No of Dwelling Units:

Receipt No. 25012 Fee Amount $454.00 Permit Status: Active Valuation of Work: $15,000.00

Date Fee Paid: 1/19/2005 Fee Code: PRMT Control No: 250109

SPECIAL CONDITIONS:

This permit is being issued despite the fact this site has not been zoned in a manner consistent with the activities anticipated for the site. The County does not by issuing this permit, wave its right to enforce its requirement that building permits cannot be issued in the absence of proper zoning. However, in light of this Court's judgement and the suspension of that judgment pending appeal in the case styled Cass County, Missouri, Plaintiff v. Aquila, Inc., Defendant, Case No. CV104-1443CC, this building permit is being issued despite the absence of proper zoning.

I, Pete B Brown, hereby certify that I am Builder ,and affirm the above statements as true and correct.

NOTICE:This permit becomes null and void if work or construction is not commenced within 180 days or if work is suspended or abandonded for a period of 180 days at any time after work is commenced. All work or construction allowed by this permit shall be completed within two (2) years or this permit shall be expired by limitation and a new permit for any additional work shall be obtained prior to work or construction being resumed.

The Applicant hereby agrees to abide by and comply with the provisions of all Building Codes, Health Laws, and the Zoning Order of Cass County, Missouri and any other law or ordinance governing this type of work whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction. Contact Cass County Road and Bridge at 830-8360 about driveway approach requirements.

FOR INSPECTIONS CALL 380-8134

APPLICANT SIGNATURE 19 JAN 05 DATE

PERMISSION FOR ABOVE DESCRIBED WORK IS HEREBY GRANTED

FOR THE CHIEF BUILDING OFFICIAL 1/19/2005 DATE

COUNTY OF CASS COUNTY, MISSOURI
BUILDING CODES DEPARTMENT

102 East Wall Street Harrisonville, MO 64701
Phone: (816) 380-8134 Fax: (816) 380-8130

CONSTRUCTION PERMIT

PERMIT NO 25013

for inspections call 380-8134 (K.C.line)

Project Control No: 250110 Date Permit Issued: 1/19/2005
Application Date: 1/14/2005

JOB ADDRESS: 24400 | S | Harper | Rd **Post Office:** Peculiar

32/45/32					
S / T / R	QTR-QTR SEC	PARCEL NO	LOT	BLOCK	SUB DIVISION

Project Name:

Use Of Building: Temp Work Enclosure Use Code: 512

Applicant ID:

Applicant Person or Firm: Kissick Construction Co Inc Applicant Code: 2

Pete	B	Brown	8131 Indiana Ave	Kansas City	Mo	64132
APPLICANT NAME			ADDRESS	CITY	STATE	ZIP CODE

Phone: 816-363-5530 Fax: Mobile: 816-560-7424 Alternate Phone:

OWNER	ADDRESS	CITY	STATE	ZIP	PHONE

DESCRIPTION OF WORK TO BE PERFORMED:

To construct a temporary work enclosure as per submitted plans and all applicable building codea and county ordinance

WORK INCLUDED IN SCOPE OF WORK COVERED BY PERMIT

Electrical: -1 Plumbing: Mechanical: Electrical Service: -1 Gas Piping: Other:

Type of Building: Commercial Class of Work: New Occupancy Group: U Type of Construction: VN

Zoning District: Zoning File No: Flood Plain Map Panel: Flood Plain Development Permit:

Gross Building Area: 0 Stories or Bldg Height: No of Dwelling Units:

Receipt No. 25013 Fee Amount $174.00 Permit Status Active Valuation of Work: $5,000.00

Date Fee Paid: 1/19/2005 Fee Code PRMT Control No: 250110

SPECIAL CONDITIONS:

This permit is being issued despite the fact this site has not been zoned in a manner consistent with the activities anticipated for the site. The County does not by issuing this permit, wave its right to enforce its requirement that building permits cannot be issued in the absence of proper zoning. However, in light of this Court's judgement and the suspension of that judgment pending appeal in the case styled Cass County, Missouri, Plaintiff v. Aquila, Inc., Defendant, Case No. CV104-1443CC, this building permit is being issued despite the absence of proper zoning.

I, Pete B Brown , hereby certify that I am Builder ,and affirm the above statements as true and correct.

NOTICE: This permit becomes null and void if work or construction is not commenced within 180 days or if work is suspended or abandonded for a period of 180 days at any time after work is commenced. All work or construction allowed by this permit shall be completed within two (2) years or this permit shall be expired by limitation and a new permit for any additional work shall be obtained prior to work or construction being resumed.

The Applicant hereby agrees to abide by and comply with the provisions of all Building Codes, Health Laws, and the Zoning Order of Cass County, Missouri and any other law or ordinance governing this type of work whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction. Contact Cass County Road and Bridge at 830-8360 about driveway approach requirements.

FOR INSPECTIONS CALL 380-8134

APPLICANT SIGNATURE 1/19/05 DATE

PERMISSION FOR ABOVE DESCRIBED WORK IS HEREBY GRANTED

FOR THE CHIEF BUILDING OFFICIAL 1/19/2005 DATE

BUILDING CODES DEPARTMENT
102 East Wall Street Harrisonville, MO 64701
Phone: (816) 380-8134 Fax: (816) 380-8130

CONSTRUCTION PERMIT

PERMIT NO 25015
for inspections call 380-8134 (K.C.line)

Project Control No: 250108
Application Date: 1/7/2005
Date Permit Issued: 1/24/2005

JOB ADDRESS: 24400 | S | Harper | Rd | **Post Office:** Peculiar

S / T / R	QTR-QTR SEC	PARCEL NO	LOT	BLOCK	SUB DIVISION
32/45/32					

Project Name:

Use Of Building: Temp Non Residential Service | Use Code: 410

Applicant ID:

Applicant Person or Firm: AZCO Integrated Construction | Applicant Code: 02

APPLICANT NAME			ADDRESS	CITY	STATE	ZIP CODE
Chip		Buechler	PO Box 567	Appleton	WI	54912-0567

Phone: 800 545-8452 Fax: Mobile: 920 450-3158 Alternate Phone:

OWNER	ADDRESS	CITY	STATE	ZIP	PHONE

DESCRIPTION OF WORK TO BE PERFORMED:
To set up temporary power at job site as per all applicable building codes and county ordinances.

WORK INCLUDED IN SCOPE OF WORK COVERED BY PERMIT
Electrical: -1 Plumbing: Mechanical: Electrical Service: -1 Gas Piping: Other:

Type of Building: Commercial Class of Work: New Occupancy Group: Type of Construction:

Zoning District: Zoning File No: Flood Plain Map Panel: Flood Plain Development Permit:

Gross Building Area: 0 Stories or Bldg Height: 0 No of Dwelling Units: 0

Receipt No. 25015 Fee Amount $62.00 Permit Status Active Valuation of Work: $5,000.00
Date Fee Paid: 1/24/2005 Fee Code PRMT Control No: 250108

SPECIAL CONDITIONS:
This permit is being issued despite the fact this site has not been zoned in a manner consistent with the activities anticipated for the site. The County does not by issuing this permit, wave its right to enforce its requirement that building permits cannot be issued in the absence of proper zoning. However, in light of this Court's judgement and the suspension of that judgment pending appeal in the case styled Cass County, Missouri, Plaintiff v. Aquila, Inc., Defendant, Case No. CV104-1443CC, this building permit is being issued despite the absence of proper zoning.

I, Chip Buechler, hereby certify that I am Builder
and affirm the above statements as true and correct.

NOTICE: This permit becomes null and void if work or construction is not commenced within 180 days or if work is suspended or abandonded for a period of 180 days at any time after work is commenced. All work or construction allowed by this permit shall be completed within two (2) years or this permit shall be expired by limitation and a new permit for any additional work shall be obtained prior to work or construction being resumed.

The Applicant hereby agrees to abide by and comply with the provisions of all Building Codes, Health Laws, and the Zoning Order of Cass County, Missouri and any other law or ordinance governing this type of work whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction. Contact Cass County Road and Bridge at 830-6360 about driveway approach requirements.

FOR INSPECTIONS CALL 380-8134

Chip Buechler 1-24-05
APPLICANT SIGNATURE DATE

PERMISSION FOR ABOVE DESCRIBED WORK IS HEREBY GRANTED

Michele Burnworth 1/24/2005
FOR THE CHIEF BUILDING OFFICIAL DATE

COUNTY OF CASS COUNTY, MISSOURI
BUILDING CODES DEPARTMENT
102 East Wall Street Harrisonville, MO 64701
Phone: (816) 380-8134 Fax: (816) 380-8130

CONSTRUCTION PERMIT

PERMIT NO. 25020
for inspections call 380-8134 (K.C.line)

Project Control No: 241219
Application Date: 12/17/04
Date Permit Issued: 2/1/05

JOB ADDRESS: 24400 | S | Harper | Rd | **Post Office:** Peculiar

S / T / R	QTR-QTR SEC	PARCEL NO	LOT	BLOCK	SUB DIVISION
32/45/32					

Project Name:

Use Of Building: Equipment Building Use Code: 473

Applicant ID:

Applicant Person or Firm: Aquila, Inc. Applicant Code: 02

APPLICANT NAME			ADDRESS	CITY	STATE	ZIP CODE
Doug		Lukenbill	10700 East 350 Highway	Kansas City	MO	64138

Phone: 816-737-7547 Fax: Mobile: 816-806-1230 Alternate Phone:

OWNER	ADDRESS	CITY	STATE	ZIP	PHONE

DESCRIPTION OF WORK TO BE PERFORMED:
To install a control enclosure structure at South Harper Substation as per enineered plans and all applicable building codes and county ordinances.

WORK INCLUDED IN SCOPE OF WORK COVERED BY PERMIT
Electrical: -1 Plumbing: Mechanical: -1 Electrical Service: -1 Gas Piping: Other:

Type of Building: Industrial Class of Work: New Occupancy Group: U1 Type of Construction: VN

Zoning District: Zoning File No: Flood Plain Map Panel: Flood Plain Development Permit:

Gross Building Area: 0 Stories or Bldg Height: No of Dwelling Units:

Receipt No. 25020 Fee Amount $1,112.00 Permit Status Active Valuation of Work: $129,221.00
Date Fee Paid: 2/1/05 Fee Code PRMT Control No: 241219

SPECIAL CONDITIONS:
This permit is being issued despite the fact this site has not been zoned in a manner consistent with the activities anticipated for the site. The County does not by issuing this permit, wave its right to enforce its requirement that building permits cannot be issued in the absence of proper zoning. However, in light of this Court's judgement and the suspension of that judgment pending appeal in the case styled Cass County, Missouri, Plaintiff v. Aquila, Inc., Defendant, Case No. CV104-1443CC, this building permit is being issued despite the absence of proper zoning.

I, Doug Lukenbill , hereby certify that I am Builder ,and affirm the above statements as true and correct.

NOTICE: This permit becomes null and void if work or construction is not commenced within 180 days or if work is suspended or abandonded for a period of 180 days at any time after work is commenced. All work or construction allowed by this permit shall be completed within two (2) years or this permit shall be expired by limitation and a new permit for any additional work shall be obtained prior to work or construction being resumed.

The Applicant hereby agrees to abide by and comply with the provisions of all Building Codes, Health Laws, and the Zoning Order of Cass County, Missouri and any other law or ordinance governing this type of work whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction. Contact Cass County Road and Bridge at 830-8360 about driveway approach requirements.

INSPECTIONS CALL 380-8134

Douglas Lukenbill 2/1/05
APPLICANT SIGNATURE DATE

PERMISSION FOR ABOVE DESCRIBED WORK IS HEREBY GRANTED

Michael Burnworth 2/1/05
FOR THE CHIEF BUILDING OFFICIAL DATE

COUNTY OF CASS COUNTY, MISSOURI
BUILDING CODES DEPARTMENT
102 East Wall Street Harrisonville, MO 64701
Phone: (816) 380-8134 Fax: (816) 380-8130

CONSTRUCTION PERMIT

PERMIT NO. **25021**
for inspections call 380-8134 (K.C.line)

Project Control No: 241220
Application Date: 12/17/04
Date Permit Issued: 2/1/05

JOB ADDRESS: 8901 | E | 203rd | St **Post Office:** Peculiar

05/45/32					
S / T/ R	QTR-QTR SEC	PARCEL NO	LOT	BLOCK	SUB DIVISION

Project Name:

Use Of Building: Equipment Building Use Code: 473

Applicant ID:

Applicant Person or Firm: Aquila, Inc. Applicant Code: 02

Doug		Lukenbill	10700 East 350 Highway	Kansas City	MO	64138
APPLICANT NAME			ADDRESS	CITY	STATE	ZIP CODE

Phone: 816-737-7547 Fax: Mobile: 816-806-1230 Alternate Phone:

OWNER	ADDRESS	CITY	STATE	ZIP	PHONE

DESCRIPTION OF WORK TO BE PERFORMED:

To install a control enclosure structure at Peculiar Substation as per enineered plans and all applicable building codes and county ordinances.

WORK INCLUDED IN SCOPE OF WORK COVERED BY PERMIT

Electrical: -1 Plumbing: Mechanical: -1 Electrical Service: -1 Gas Piping: Other:

Type of Building: Industrial Class of Work New Occupancy Group: U1 Type of Construction: VN

Zoning District: Zoning File No: Flood Plain Map Panel: Flood Plain Development Permit:

Gross Building Area: 0 Stories or Bldg Height: 0 No of Dwelling Units: 0

Receipt No. 25021 Fee Amount $1,151.00 Permit Status Active Valuation of Work: $136,655.00

Date Fee Paid: 2/ 1/05 Fee Code PRMT Control No: 241220

SPECIAL CONDITIONS:

This permit is being issued despite the fact this site has not been zoned in a manner consistent with the activities anticipated for the site. The County does not by issuing this permit, wave its right to enforce its requirement that building permits cannot be issued in the absence of proper zoning. However, in light of this Court's judgement and the suspension of that judgment pending appeal in the case styled Cass County, Missouri, Plaintiff v. Aquila, Inc., Defendant, Case No. CV104-1443CC, this building permit is being issued despite the absence of proper zoning.

I, Doug Lukenbill , hereby certify that I am Builder ,and affirm the above statements as true and correct.

NOTICE: This permit becomes null and void if work or construction is not commenced within 180 days or if work is suspended or abandonded for a period of 180 days at any time after work is commenced. All work or construction allowed by this permit shall be completed within two (2) years or this permit shall be expired by limitation and a new permit for any additional work shall be obtained prior to work or construction being resumed.

The Applicant hereby agrees to abide by and comply with the provisions of all Building Codes, Health Laws, and the Zoning Order of Cass County, Missouri and any other law or ordinance governing this type of work whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction. Contact Cass County Road and Bridge at 830-8360 about driveway approach requirements.

FOR INSPECTIONS CALL 380-8134

Doug Lukenbill 2/1/05
APPLICANT SIGNATURE DATE

PERMISSION FOR ABOVE DESCRIBED WORK IS HEREBY GRANTED

Michele Burnside 2/1/05
FOR THE CHIEF BUILDING OFFICIAL DATE

COUNTY OF CASS COUNTY, MISSOURI
BUILDING CODES DEPARTMENT
102 East Wall Street Harrisonville, MO 64701
Phone: (816) 380-8134 Fax: (816) 380-8130

CONSTRUCTION PERMIT

PERMIT NO 25047

for inspections call 380-8134 (K.C.line)

Project Control No: 241206
Application Date: 12/3/2004
Date Permit Issued: 2/24/2005

JOB ADDRESS: 24400 | S | Harper | Rd | **Post Office:** Peculiar

S / T / R	QTR-QTR SEC	PARCEL NO	LOT	BLOCK	SUB DIVISION
32/45/32					

Project Name:

Use Of Building: Power Plant/Service Building F1 Foundation only | Use Code: 530

Applicant ID:

Applicant Person or Firm: Aquila, Inc. | Applicant Code: 02

APPLICANT NAME			ADDRESS	CITY	STATE	ZIP CODE
Terry		Hedrick	10700 East 350 Highway	Kansas City	MO	64138

Phone: 816-737-7864 Fax: (816) 743-3864 Mobile: (816) 590-5489 Alternate Phone:

OWNER	ADDRESS	CITY	STATE	ZIP	PHONE

DESCRIPTION OF WORK TO BE PERFORMED:

To install foundations only for the turbines and service building at the Aquila Peaking power as per submitted plans and applicable building codes and county ordinances. As a note other permits are required deferred submittals.

WORK INCLUDED IN SCOPE OF WORK COVERED BY PERMIT

Electrical: 0 Plumbing: 0 Mechanical: 0 Electrical Service: 0 Gas Piping: 0 Other:

Type of Building: Industrial Class of Work: New Occupancy Group: F1 Type of Construction:

Zoning District: Zoning File No: Flood Plain Map Panel: Flood Plain Development Permit:

Gross Building Area: 0 Stories or Bldg Height: No of Dwelling Units:

Receipt No. 25047 Fee Amount $12,260.00 Permit Status Active Valuation of Work: $2,789,900.00

Date Fee Paid: 2/24/2005 Fee Code PRMT Control No: 241206

SPECIAL CONDITIONS:

This permit is being issued despite the fact this site has not been zoned in a manner consistent with the activities anticipated for the site. The County does not by issuing this permit, wave its right to enforce its requirement that building permits cannot be issued in the absence of proper zoning. However, in light of this Court's judgement and the suspension of that judgment pending appeal in the case styled Cass County, Missouri, Plaintiff v. Aquila, Inc., Defendant, Case No. CV104-1443CC, this building permit is being issued despite the absence of proper zoning.

I, Terry Hedrick, hereby certify that I am Builder
and affirm the above statements as true and correct.

NOTICE: This permit becomes null and void if work or construction is not commenced within 180 days or if work is suspended or abandonded for a period of 180 days at any time after work is commenced. All work or construction allowed by this permit shall be completed within two (2) years or this permit shall be expired by limitation and a new permit for any additional work shall be obtained prior to work or construction being resumed.

The Applicant hereby agrees to abide by and comply with the provisions of all Building Codes, Health Laws, and the Zoning Order of Cass County, Missouri and any other law or ordinance governing this type of work whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction. Contact Cass County Road and Bridge at 830-8360 about driveway approach requirements.

FOR INSPECTIONS CALL 380-8134

PERMISSION FOR ABOVE DESCRIBED WORK IS HEREBY GRANTED

APPLICANT SIGNATURE	DATE	FOR THE CHIEF BUILDING OFFICIAL	DATE
	2/24/2005		2/24/2005

COUNTY OF CASS COUNTY, MISSOURI
BUILDING CODES DEPARTMENT

102 East Wall Street Harrisonville, MO 64701
Phone: (816) 380-8134 Fax: (816) 380-8130

CONSTRUCTION PERMIT

PERMIT NO. **25072**

for inspections call 380-8134 (K.C.line)

Project Control No: 250206
Application Date: 2/ 7/05

Date Permit Issued: 3/21/05

JOB ADDRESS: 24400 | S | Harper | Rd | **Post Office:** Peculiar

S / T / R	QTR-QTR SEC	PARCEL NO	LOT	BLOCK	SUB DIVISION
32/45/32					

Project Name:

Use Of Building: Power Plant/Service building. F-1 Use Code: 530

Applicant ID:

Applicant Person or Firm: Aquila, Inc. Applicant Code: 02

APPLICANT NAME			ADDRESS	CITY	STATE	ZIP CODE
Terry		Hedrick	10700 East 350 Highway	Kansas City	MO	64138

Phone: 816-737-7854 Fax: Mobile: 816-590-5489 Alternate Phone:

OWNER	ADDRESS	CITY	STATE	ZIP	PHONE

DESCRIPTION OF WORK TO BE PERFORMED:

To Install the turbines and service building at the Aquila Peeking power as per submitted plans and applicable building codes and county ordinances. As a note other permits are required deferred submittals.

WORK INCLUDED IN SCOPE OF WORK COVERED BY PERMIT

Electrical: -1 Plumbing: -1 Mechanical: -1 Electrical Service: -1 Gas Piping: -1 Other:

Type of Building: Industrial Class of Work: New Occupancy Group: F-1 Type of Construction: II-B

Zoning District: Zoning File No: Flood Plain Map Panel: Flood Plain Development Permit:

Gross Building Area: 0 Stories or Bldg Height: No of Dwelling Units:

Receipt No. 25072 Fee Amount: $22,200.00 Permit Status: Active Valuation of Work: $5,381,000.00

Date Fee Paid: 3/21/05 Fee Code: PRMT Control No: 250206

SPECIAL CONDITIONS:

This permit is being issued despite the fact this site has not been zoned in a manner consistent with the activities anticipated for the site. The County does not by issuing this permit, wave its right to enforce its requirement that building permits cannot be issued in the absence of proper zoning. However, in light of this Court's judgement and the suspension of that judgment pending appeal in the case styled Cass County, Missouri, Plaintiff v. Aquila, Inc., Defendant, Case No. CV104-1443CC, this building permit is being issued despite the absence of proper zoning.

I, Terry Hedrick, hereby certify that I am Builder ,and affirm the above statements as true and correct.

NOTICE: This permit becomes null and void if work or construction is not commenced within 180 days or if work is suspended or abandonded for a period of 180 days at any time after work is commenced. All work or construction allowed by this permit shall be completed within two (2) years or this permit shall be expired by limitation and a new permit for any additional work shall be obtained prior to work or construction being resumed.

The Applicant hereby agrees to abide by and comply with the provisions of all Building Codes, Health Laws, and the Zoning Order of Cass County, Missouri and any other law or ordinance governing this type of work whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction. Contact Cass County Road and Bridge at 830-8360 about driveway approach requirements.

FOR INSPECTIONS CALL 380-8134

PERMISSION FOR ABOVE DESCRIBED WORK IS HEREBY GRANTED

Terry C. Hedrick 3/21/2005
APPLICANT SIGNATURE DATE

FOR THE CHIEF BUILDING OFFICIAL 3/21/05
DATE

COUNTY OF CASS COUNTY, MISSOURI
BUILDING CODES DEPARTMENT

102 East Wall Street Harrisonville, MO 64701
Phone: (816) 380-8134 Fax: (816) 380-8130

CONSTRUCTION PERMIT

PERMIT NO 25196

for inspections call 380-8134 (K.C.line)

Project Control No: 250537
Application Date: 5/19/2005

Date Permit Issued: 7/6/2005

JOB ADDRESS: 24400 | S | Harper | Rd **Post Office:** Peculiar

S / T / R	QTR-QTR SEC	PARCEL NO	LOT	BLOCK	SUB DIVISION
32/45/32					

Project Name:

Use Of Building: For an H occupancy Use Code:

Applicant ID:

Applicant Person or Firm: Aquila, Inc. Applicant Code: 02

APPLICANT NAME			ADDRESS	CITY	STATE	ZIP CODE
Tom		Miller	10700 East 350 Highway	Kansas City	MO	64138

Phone: 816-737-7854 Fax: Mobile: 816-223-8732 Alternate Phone:

OWNER	ADDRESS	CITY	STATE	ZIP	PHONE

DESCRIPTION OF WORK TO BE PERFORMED:

To install a foundation only for an h occupancy building. as per submited plans and all applicable building codes and county ordinances.

INCLUDED IN SCOPE OF WORK COVERED BY PERMIT

El[redacted]al: 0 Plumbing: 0 Mechanical: 0 Electrical Service: 0 Gas Piping: 0 Other:

Type of Building: Industrial Class of Work: New Occupancy Group: H Type of Construction:

Zoning District: Zoning File No: Flood Plain Map Panel: Flood Plain Development Permit:

Gross Building Area: 0 Stories or Bldg Height: No of Dwelling Units:

Receipt No. 25196 Fee Amount $473.00 Permit Status Active Valuation of Work: $32,950.00

Date Fee Paid: 7/6/2005 Fee Code PRMT Control No: 250537

SPECIAL CONDITIONS:

This permit is being issued despite the fact this site has not been zoned in a manner consistent with the activities anticipated for the site. The County does not by issuing this permit, wave its right to enforce its requirement that building permits cannot be issued in the absence of proper zoning. However, in light of this Court's judgement and the suspension of that judgment pending appeal in the case styled Cass County, Missouri, Plaintiff v. Aquila, Inc., Defendant, Case No. CV104-1443CC, this building permit is being issued despite the absence of proper zoning.

I, Tom Miller ,hereby certify that I am Builder ,and affirm the above statements as true and correct.

NOTICE:This permit becomes null and void if work or construction is not commenced within 180 days or if work is suspended or abandonded for a period of 180 days at any time after work is commenced. All work or construction allowed by this permit shall be completed within two (2) years or this permit shall be expired by limitation and a new permit for any additional work shall be obtained prior to work or construction being resumed.

The Applicant hereby agrees to abide by and comply with the provisions of all Building Codes, Health Laws, and the Zoning Order of Cass County, Missouri and any other law or ordinance governing this type of work whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction. Contact Cass County Road and Bridge at 830-8360 about driveway approach requirements.

FOR INSPECTIONS CALL 380-8134

[redacted] C. Miller 7/6/2005
APPLICANT SIGNATURE DATE

PERMISSION FOR ABOVE DESCRIBED WORK IS HEREBY GRANTED

FOR THE CHIEF BUILDING OFFICIAL

7/6/2005
DATE

COUNTY OF CASS COUNTY, MISSOURI
BUILDING CODES DEPARTMENT
102 East Wall Street Harrisonville, MO 64701
Phone: (816) 380-8134 Fax: (816) 380-8130

CONSTRUCTION PERMIT

PERMIT NO 25267
for inspections call 380-8134 (K.C.line)

Project Control No: 250639
Application Date: 7/6/2005
Date Permit Issued: 9/6/2005

JOB ADDRESS: 24400 | S | Harper | Rd | **Post Office:** Peculiar

S / T / R	QTR-QTR SEC	PARCEL NO	LOT	BLOCK	SUB DIVISION
32/45/32					

Project Name:

Use Of Building: H occupancy Use Code:

Applicant ID:

Applicant Person or Firm: Aquila, Inc. Applicant Code: 02

APPLICANT NAME			ADDRESS	CITY	STATE	ZIP CODE
Tom		Miller	10700 East 350 Highway	Kansas City	MO	64138

Phone: 816-737-7854 Fax: Mobile: 816-223-8732 Alternate Phone:

OWNER	ADDRESS	CITY	STATE	ZIP	PHONE

DESCRIPTION OF WORK TO BE PERFORMED:

Install Flamable material storage building size: 22' x 25' w/12' sidewalls at the Aquila Peeking power as per submited plans and applicable building codes and county ordinances.

WORK INCLUDED IN SCOPE OF WORK COVERED BY PERMIT

Electrical: -1 Plumbing: 0 Mechanical: -1 Electrical Service: -1 Gas Piping: 0 Other:

Type of Building: Storage Class of Work: New Occupancy Group: H-2 Type of Construction: II B

Zoning District: Zoning File No: Flood Plain Map Panel: Flood Plain Development Permit:

Gross Building Area: 600 Stories or Bldg Height: No of Dwelling Units:

Receipt No. 25267 Fee Amount $822.00 Permit Status Active Valuation of Work: $53,709.00

Date Fee Paid: 9/6/2005 Fee Code PRMT Control No: 250639

SPECIAL CONDITIONS:

This permit is being issued despite the fact this site has not been zoned in a manner consistent with the activities anticipated for the site. The County does not by issuing this permit, wave its right to enforce its requirement that building permits cannot be issued in the absence of proper zoning. However, in light of this Court's judgement and the suspension of that judgment pending appeal in the case styled Cass County, Missouri, Plaintiff v. Aquila, Inc., Defendant, Case No. CV104-1443CC, this building permit is being issued despite the absence of proper zoning.

I, Tom Miller ,hereby certify that I am Builder ,and affirm the above statements as true and correct.

NOTICE:This permit becomes null and void if work or construction is not commenced within 180 days or if work is suspended or abandonded for a period of 180 days at any time after work is commanced. All work or construction allowed by this permit shall be completed within two (2) years or this permit shall be expired by limitation and a new permit for any additional work shall be obtained prior to work or construction being resumed.

The Applicant hereby agrees to abide by and comply with the provisions of all Building Codes, Health Laws, and the Zoning Order of Cass County, Missouri any other law or ordinance governing this type of work whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction. Contact Cass County Road and Bridge at 830-8360 about driveway approach requirements.

FOR INSPECTIONS CALL 380-8134

APPLICANT SIGNATURE 9/6/2005 DATE

PERMISSION FOR ABOVE DESCRIBED WORK IS HEREBY GRANTED

FOR THE CHIEF BUILDING OFFICIAL 9/6/2005 DATE

COUNTY OF CASS COUNTY, MISSOURI
BUILDING CODES DEPARTMENT
102 East Wall Street Harrisonville, MO 64701
Phone: (816) 380-8134 Fax: (816) 380-8130

CONSTRUCTION PERMIT

PERMIT NO 25339
for inspections call 380-8134 (K.C.line)

Project Control No: 251034
Application Date: 10/28/2005
Date Permit Issued: 10/31/2005

JOB ADDRESS: 24400 | S | Harper | Rd | **Post Office:** Peculiar

S / T / R	QTR-QTR SEC	PARCEL NO	LOT	BLOCK	SUB DIVISION
32/45/32					

Project Name:

Use Of Building: Foundation Use Code: 730

Applicant ID:
Applicant Person or Firm: Aquila, Inc. Applicant Code: 02

APPLICANT NAME			ADDRESS	CITY	STATE	ZIP CODE
Tom		Miller	10700 East 350 Highway	Kansas City	MO	64136

Phone: 816-737-7854 Fax: Mobile: 816-223-8732 Alternate Phone:

OWNER	ADDRESS	CITY	STATE	ZIP	PHONE

DESCRIPTION OF WORK TO BE PERFORMED:
To install footings and foundation for sound proofing walls as per submited plans and all applicable building codes and county ordinances.

WORK INCLUDED IN SCOPE OF WORK COVERED BY PERMIT

Electrical: -1 Plumbing: 0 Mechanical: 0 Electrical Service: 0 Gas Piping: 0 Other:

Type of Building: Commercial Class of Work: New Occupancy Group: Type of Construction: VN

Zoning District: Zoning File No: Flood Plain Map Panel: Flood Plain Development Permit:

Gross Building Area: 0 Stories or Bldg Height: No of Dwelling Units:

Receipt No. 25339 Fee Amount $1,414.00 Permit Status Active Valuation of Work: $174,469.00
Date Fee Paid: 10/31/2005 Fee Code PRMT Control No: 251034

SPECIAL CONDITIONS:
This permit is being issued despite the fact this site has not been zoned in a manner consistent with the activities anticipated for the site. The County does not by issuing this permit, wave its right to enforce its requirement that building permits cannot be issued in the absence of proper zoning. However, in light of this Court's judgement and the suspension of that judgment pending appeal in the case styled Cass County, Missouri, Plaintiff v. Aquila, Inc., Defendant, Case No. CV104-1443CC, this building permit is being issued despite the absence of proper zoning.

I, Tom Miller ,hereby certify that I am Builder
,and affirm the above statements as true and correct.

NOTICE:This permit becomes null and void if work or construction is not commenced within 180 days or if work is suspended or abandonded for a period of 180 days at any time after work is commenced. All work or construction allowed by this permit shall be completed within two (2) years or this permit shall be expired by limitation and a new permit for any additional work shall be obtained prior to work or construction being resumed.

The Applicant hereby agrees to abide by and comply with the provisions of all Building Codes, Health Laws, and the Zoning Order of Cass County, Missouri and any other law or ordinance governing this type of work whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction. Contact Cass County Road and Bridge at 630-6360 about driveway approach requirements.

FOR INSPECTIONS CALL 380-8134

APPLICANT SIGNATURE 10/31/2005 DATE

PERMISSION FOR ABOVE DESCRIBED WORK IS HEREBY GRANTED

FOR THE CHIEF BUILDING OFFICIAL 10/31/2005 DATE

Cass County Commission

GARY L. MALLORY
Presiding Commissioner
Email commission@casscounty.com

JIM MEARA
Associate Commissioner Dist. 2
Email commissioner@casscounty.com

Jan Cantrell, Administrative Assistant
102 E. Wall, Harrisonville, Mo 64701
Phone (816) 380-8155 Fax (816) 380-8156

JON H. SEABAUGH
Associate Commissioner Dist. 1
Email commissioner@casscounty.com

October 4, 2004

Sega Inc.
Attn: Mike Blake
16041 Foster
PO Box 1000
Stilwell, KS 66085

Dear Mr. Blake,

Please accept this correspondence as official confirmation that Cass County does not require a grading permit for the Aquila South Harper Peaking Facility.

I sincerely appreciate receiving the information you sent regarding the site.

If you require anything further, please do not hesitate to give me a call.

Sincerely,

Gary L. Mallory
Presiding Commissioner

Road & Bridge Driveway Permit

Sega®

FAX TRANSMITTAL FORM

Date: December 1, 2004

Total number of pages, including this cover sheet: 2

This fax is being sent to:

Name:	Robert Leeper	Fax No.:	816-380-8365
Company:	Cass County, MO Road and Bridge	City/State:	Cass County, MO

Name:	Terry Hedrick	Fax No.:	816-743-3854
Company:	Aquila, Inc.	City/State:	Kansas City, MO

From: Michael Blake Sega Project No.: 04-0112-02

Re: Aquila, Inc. – South Harper Peaking Facility

SUBJECT: Road and Bridge Driveway Permit

Comments:

Robert,

Attached is entrance permit signed by Terry Hedrick with Aquila.

For Aquila's records, could you please provide a formal letter stating the entrance permit has been issued?

You can address the letter to Michael Blake (Fax: 913-681-8475)

I appreciate your help, and if you should have any questions, please do not hesitate to give me a call.

Sincerely,

c: Kathy Maring

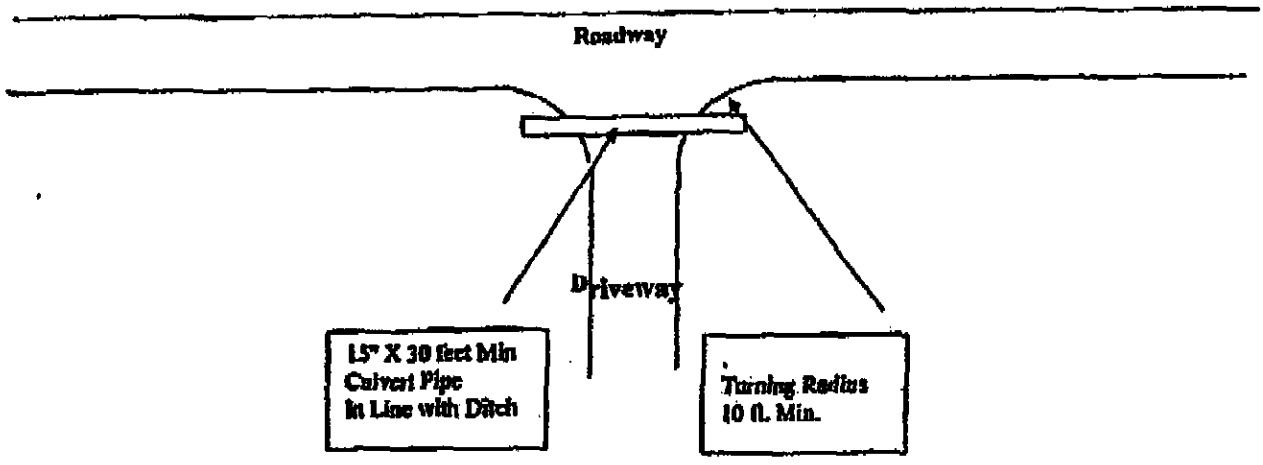
IF YOU DO NOT RECEIVE A CLEAR OR COMPLETE COPY OF THESE PAGES, PLEASE CALL OUR OFFICE AT: (913) 681-2881.

OUR FAX NUMBER IS: (913) 681-8475

Sega Inc,
P. O. BOX 1000

16041 FOSTER
STILWELL, KANSAS 66085-1000
www.segainc.com

PHONE 913-681-2881
FAX 913-681-8475



ROAD & BRIDGE
DRIVEWAY PERMIT

Name Aquila Inc. South Harper Peaking Facility

Address 24400 South Harper Road

City Cass County, MO 64078-9086

Phone 816/737-7854

Date requested _____

Owner Signature Terry S Hedrick

Safety Issues/ Site Distance OK

Approval Robert Simpson Supt. Cass Co.

Date Installed _____

Permit Fee $25.00

File in R & B

Water Supply Agreement

PUBLIC WATER SUPPLY DISTRICT #7 OF CASS COUNTY

NEW SERVICE APPLICATION & WATER USERS AGREEMENT

DATE: 10/19/04

Billing Name Aquila - S. Harper Plant Co-Owner None

Service Address 24400 S. Harper City Peculiar

State MO Zip 67801 Telephone (816) 537-6895

Owner Birthdate N/A Co-Owner Birthdate N/A

Mailing Address 14015 S. Smart Rd, Greenwood, Mo 64034

Aquila TIN # Social Security # 111537784 Co-Owner Soc. Sec. # None

Billing Name Employer Aquila c/o Acct. Payable Phone # 816-537-6895
Attn: Tom Miller

Address PO Box 13447 City Kansas City State MO Zip 64199

Co-Owner Employer None Phone # N/A

Address N/A City _____ State _____ Zip _____

For Emergencies

Nearest Relative Greenwood Energy Center Phone # 816-537-6895

Address 14015 S. Smart Rd City Greenwood State MO Zip 64034

OFFICE USE ONLY

Account # _____ Page # _____ Contract # _____

Deposit - ____ Ck # _____ Taxable: Y N Renter / Owner

Meter # _____ Reading Date _____ Reading _____

Meter Type: A B Sub-District _____

Meter Location _____

Meter Reading Sequence # _____

New Service Contract/Rev. 070102/jlb
Rev. 12112002/jlb

AGREEMENT

In consideration of Applicant's promise to abide by all the rules and regulations of Public Water Supply District #7 of Cass County Missouri (hereinafter "District") and to pay all water bills as they become due, District agrees to supply water to Applicant for Applicant's reasonable and lawful use, subject to the terms and conditions of this agreement. To become a water user of the District, I hereby tender a sum of $2,200.00. The District shall charge a fee of $2,200.00 plus and additional cost of connection. "Standard" means a short side up to 20 feet from main, a long side up to 90 feet from main, clean-up (if applicable), up to 2 hours District labor. MO #1 notification, up to 15 ton gravel for long side set, contractor labor and machine time, and District materials based upon above limits. Upon cancellation prior to service installation, by the user, costs incurred by the District will be deducted from the total sum tendered, prior to refund.

1. Prior to initiation of any service to Applicant by District, Applicant shall deposit with District the sum of amount as prescribed in Policy #5005R1. To insure payment for water supplied to Applicant. Said deposit shall not bear interest, and shall be held until Applicant requests that water service be discontinued. The deposit shall be applied to payment of Applicant's final bill. Any funds not so used to be returned to Applicant. In the event the final bill exceeds the deposit amount, Applicant will be required to pay the District the additional amount subject to the penalty provisions of paragraph 4 of this agreement.

   Upon activation of a new meter connection, a minimum of 12 (twelve) consecutive minimums at current rate must be made prior to honoring any request for disconnection for any reasons, other than non-payment. If less than 12 (twelve) months minimums have been met, there shall be a trip charge at current rate added to the account to read and lock the meter.

2. Pay a minimum monthly meter charge for the water service connection from time service is made available by the District, and pay for additional water used at the rate set out in the rate schedule, adopted by the Board of Directors. Any changes made in the minimum monthly water charge and rate schedule by the Board of Directors of the District shall become a part of this agreement, as though fully set out herein.

3. The District shall read the water meters. Service bill for water used shall be rendered by the 15th of the month, following the month in which the water is used, and the undersigned agrees to pay said service bill on or before the first (1st) day of each month, or be subject to a late charge of 10%. Failure of the District to submit a service bill shall not excuse the undersigned from his/her obligation to pay for the water used when the bill is submitted, nor shall it be an excuse not to pay the late charge, or to be disconnected for non-payment. Failure to pay a bill prior to the last Tuesday of each month shall result in discontinuance of the service. If an account is disconnected due to non-payment, a $25.00 fee for each trip to the residence will be added to the past due bill and the entire amount must be paid prior to service restoration. Failure to make payment prior to 10 AM on the last Tuesday of each month shall result in a $25.00 fee for late payment.

4. The water service supplied by the District shall be for the sole use of the undersigned. The undersigned agrees that he/she will not extend or permit the extension of pipes for the purpose of transferring water from one property to another, nor will he/she share, resale or sub-meter water to any other customer. Each meter service shall supply water to only one residence or business establishment located on land within the District. If after water service is made available the same is discontinued or disconnected for any purpose, pursuant to the bylaws and rules and regulations of the District, reconnection shall be upon the conditions set out by the bylaws and policies of the District.

5. The undersigned agrees there will be no physical connection between any private water system and the District.

6. Representatives of the District may at any reasonable time come on the premises where the water is being used, for the purpose of making inspection to enforce this provision. Violation of the provision shall be grounds for disconnection of service.

7. The Laws of the State of Missouri, the Bylaws of the District, Rules and Regulations and Policies set by the Board of Directors of the District as presently existing and as may be amended from time to time, are made a part of this agreement as though fully set out herein.

8. The District reserves the right, at any time, to discontinue service to protect itself against violations of its rules, or the laws of the State of Missouri, as well as against fraud or the illegal or unsafe use of water or any appliances and appurtenances used therewith.

9. Applicant understands that the District is not responsible, in law or in equity, for the construction maintenance or repair of any pipeline, or any other fixture, appurtenance or appliance located on the applicant's property. The District's responsibility shall extend only from its water supply system to the water meter, which shall be located as close as possible to the property line of the Applicant.

10. The District shall not be responsible for damages, compensatory, punitive or otherwise for loss of service to Applicant or damage to Applicant's property real or personal, as a result of any drought, injury to the water supply system. Failure of any supplier to supply water to the District, act of God, contamination of the water system or another such foreseeable breakdown in the District's supply system. Applicant further authorizes the repair, maintenance or cleaning of the water supply system.

11. The undersigned agrees to grant an easement, when requested to do so, for water line along public roads adjacent to the user's property.

12. This agreement shall not be effective until accepted by the District.

13. The location or description of the property to be serviced by this water service connection is set forth either the legal description of the property and/or the address and location thereof as assigned by the assessors office located in Cass County as recorded at the Cass County Court House.

14. The applicant shall be responsible for any damage to the Districts meter wells, lids, valves, valve risers, valve lid covers, posts and clean-outs. Should any damage occur, charges will be debited to the applicant's account.

15. As of January 1, 1989, all materials used in the construction, expansion, modification or improvements of a public water system or customer water system, shall be lead free.

16. This section shall not apply to leaded joints necessary for the repair of cast iron pipes. Any applicant's water system constructed, expanded, modified or repaired after January 1, 1989, that is connected to a public water system and later found to contain materials that are not lead free, shall have the water meter removed or otherwise have the service line severed from the public water supply system when supplier or water is so ordered by the appropriate local governmental authority or by the District.

17. Applicant's account is not assignable or transferable. This agreement shall be binding upon the heirs, successors, executors, administrators and assigns of applicant and District.

I, the below signed Applicant, do swear, under penalty of perjury, that the answers to all questions on this application are true and complete to the best of my knowledge and that I understand and agree to all terms listed above.

Terry S. Hodrick 10-21-04
Signature of Applicant Date

N/A
Signature of Co-Owner Date

Terry S. Hodrick
Printed Name

N/A
Printed Name

State of Missouri}
County of Cass}

On this 21st day of October, In the year of 2004, before me, the undersigned a Notary Public in and for said state, personally appeared the above signed, known to be the person who executed the within contract and acknowledged to me that he/she executed the same for the purposes therein stated.

Alexa Nunnery
Notary Public

ALEXA NUNNERY NOTARY SEAL MY COMM. EXPIRES MAY 4, 2008 NOTARY PUBLIC STATE OF MISSOURI

Alexa Nunnery
Printed Name

PUBLIC WATER SUPPLY DISTRICT #7 OF CASS COUNTY, MO

106 E. MAIN ♦ P.O. BOX 345 ♦ FREEMAN, MO. 64746
Phone 816-250-2300 ♦ Fax 816-250-2900

FYI

November 2, 2004

COPY

Aquila Networks
Mr. Terry Hedrick, Project Manager
Aquila S. Harper Peaking Facility
10700 E. 350 Highway
P.O. Box 11739
Kansas City, MO 64138
(816) 737-7854
Fax (816) 743-3854

Dear Mr. Hedrick,

We are pleased to have the opportunity to provide water from our Water District #7 system to your proposed project at 24400 S. Harper Road in Peculiar, Missouri. We support the added water sales revenue value, which aids in controlling the escalating cost of water for all of our customers.

Currently we have studied the need for system upgrades to meet your water usage. Aquila's commitment to the 6" loop option to provide Aquila backup water also provides benefit to other customers through enhanced system stability and added additional fire hydrants to the area. Costs for these improvement upgrades would be borne by Aquila.

We support the opportunity Aquila brings to enhance and improve Water District #7's system, residential fire protection and increase water sales revenue; which we see would provide improvements for all of our customers, as well as provide backup contingency for Aquila.

We are pleased that Aquila has selected a development site in Water District #7 and will meet your water usage needs to the best of our capabilities. If you should have any questions, please do not hesitate to contact Water District #7.

Sincerely,

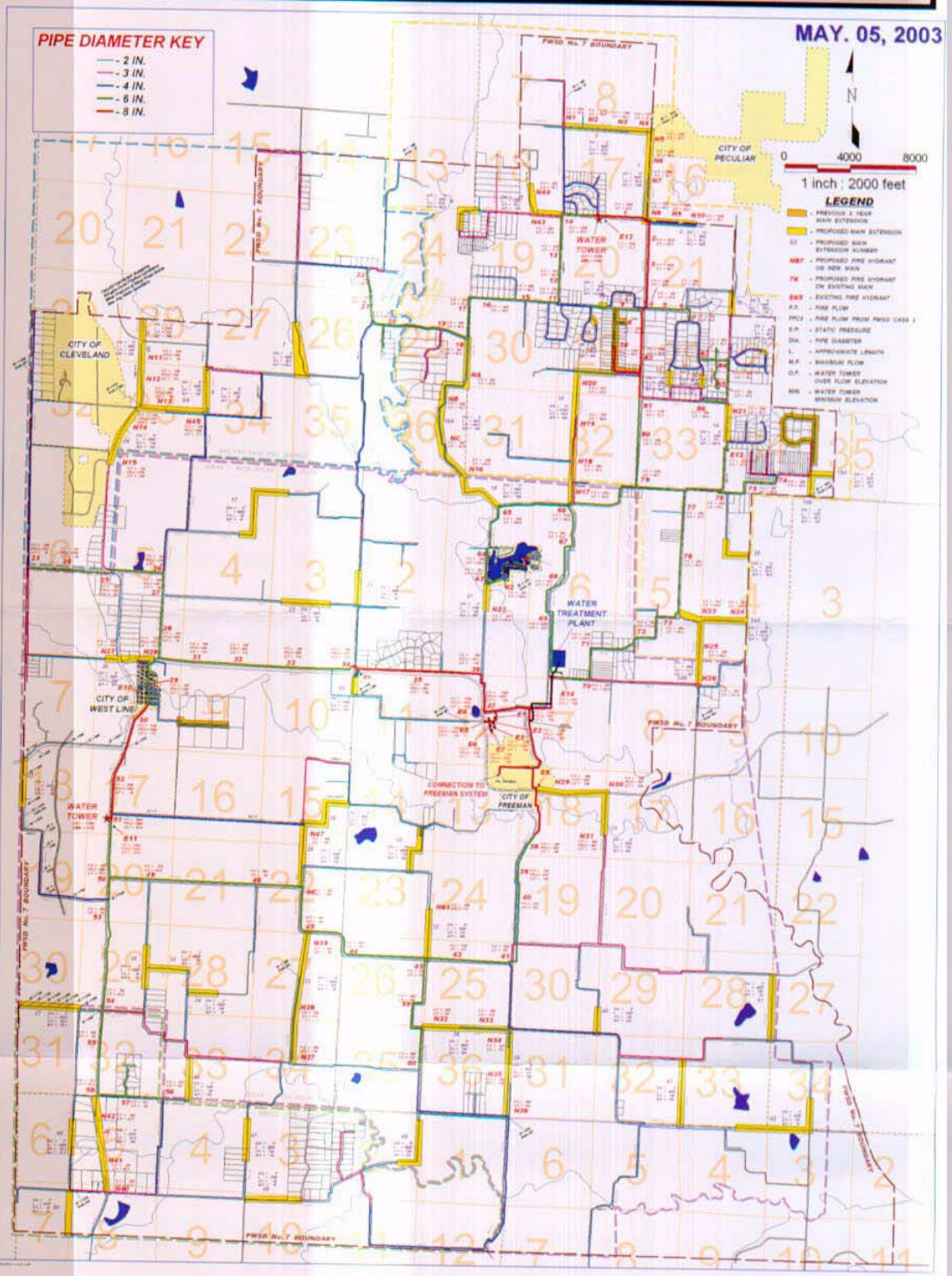
Benny Odom, Board Chairman

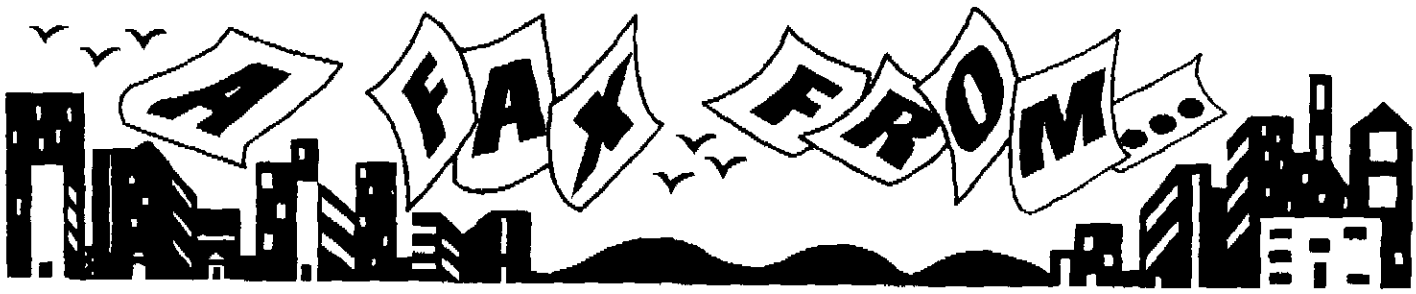
Signature Benny O. Odom Date 11-08-04

jtb

Quality On Tap!
Our Commitment Our Profession

CASS 7 PWSD - UTILITY MAP : 5-YEAR PLAN





Billing Address
Public Water Supply District #7
106 E. Main Street, Box 345
Freeman, MO 64746
Phone (816) 250-2300
Fax (816) 250-2900

Shipping Addres
Public Water Supply District #7
8906 E. 267th Street
Freeman, MO 64746
Phone (816) 779-6887
Part Time Fax (816) 779-6623
(Must call before sending fax)

Date: 6-6-05

Fax To: Jerry Hedrick
Aquila Inc.

Fax From: Leonard
(a copy for your files too!)

Fax #: 743-3130

Phone #:

Number of Pages: 5 (Cover Page Included)

Comments:

A copy for your information & your files.
Rick said he would get back with us.

Thanks

Leonard
jp

PUBLIC WATER SUPPLY DISTRICT #7 OF CASS COUNTY, MO

106 E. MAIN ♦ P.O. BOX 345 ♦ FREEMAN, MO. 64746
Phone 816-250-2300 ♦ Fax 816-250-2900

June 6, 2005

Mr. Rick Krepps
Aquila, Inc.
P.O. Box 11739
10700 350 Highway – Mail Stop 502
Kansas City, MO 64138

Cc: Mr. Terry Hedrick, Aquila
#7 Board of Directors
Barbara Scott, #7 Acct. Mgr.
Ed Lopez, #7 Dist. Mgr.
File

Re: Notice to Proceed
North Feed Loop #2 and Fire Protection Improvements

Dear Rick,

Per our phone conversation and your request, I have included a new Notice to Proceed with an estimated cost and a not to exceed amount for Aquila to be responsible for under contract **#11008-1003** which you have already issued to Cass #7.

Also as we had discussed and based upon our requirements we require that you submit $62,500 along with Notice to Proceed. The advance funds are important in that our public concerns are quelled and with both entities' cooperative effort underway, it is a win-win for all involved.

I have rebid the materials and they appear to be about $2,000 higher than our November 2004 estimate.

Also as we may or may not do in house, a new prevailing wage order if we were to contract is in place as of April 2005 which increases labor costs.

Cass #7 will show you invoices on all materials subject to that project as well as purchase orders and will not exceed the $125,000 estimated cost in as mush as Aquila's participation financially is anticipated.

We are willing to continue under your original contract **#11008-1003** for this project also.

To assist, I have included an invoice with project title **Cass #7 North Feed Loop #2 & Fire Protection Improvements** your contract **#11008-1003**, File name **CBS-340**, Labor-Resource **#1821** and Materials-Resource **#1822** and the estimated total amount not to exceed $125,000. As we finish the project and along the way we will bill Aquila under the contract on a monthly basis after invoicing with paid invoices until we use the $62,500 advance deposit on the project.

Our key focus is to get the second feed loop done initially for your dual feed protection, then work with the Fire Department and community on hydrant placement. Unless you instruct me differently I will still plan on placing a 4x8 construction sign declaring 100% Aquila participation on this loop and hydrant project. It will list cost of $125,000, lengths and sizes of main as well as hydrants, their placements and project title.

My board meeting is June 13, 2005. You had indicated you could make this happen prior to that. That would be great! Timing on the $62,500 can be later if it's easier. Signatures on all the documents to me would be great prior to the 13th, or both would be better. The $62,500 would need to be in our hands before we'd order materials and/or contract or start work. Please sign or have your representative sign this agreement and forward back also.

Let me know if other details are needed.

Sincerely,

Leonard Whiting
Systems Manager
Sel

I _____ have read this document and
Name – Aquila Representative

understand the details and its context.

_____
Signature

_____
Date

Public Water Supply District #7 of Cass County Missouri

106 E. Main Street, Box 345 * Freeman, Missouri 64746 * (816) 250-2300

INVOICE

TOTAL DUE **62,500.00**

Salesperson	Leonard Whiting
Invoice number	
Invoice date	6/06/2005
Customer ID	
Terms	Payment Due upon Receipt
Date shipped	
Shipped via	
FOB	
Prepaid / Collect	
Tax exempt	
Reason	
Exemption no.	

SOLD TO

Name	Aquila, Inc.
Address (line 1)	Contract Order # 11008-1003
Address (line 2)	P.O. Box 412237
City, State or Prov.	Kansas City, MO
Postal code, Country	64141
Phone	(816) 650-2950
Fax	
Company name	Aquila Inc.
	File Name: CBS 340

SHIPPED TO

Retype the following only if the name and address are not the same as the SOLD TO name and address.

Name	
Address (line 1)	
Address (line 2)	
City, State or Prov.	
Postal code, Country	
Company name	

REF NO.	QTY	DESCRIPTION	PRICE EACH	TOTAL
		Cass #7 North Feed Loop #2 & Fire Protection Improvements 6200 feet of 6" water main feed loops & fire hydrants as per the 10/29/2004 letter. Estimated total cost of project is $125,000.00, and not to exceed $125,000.00.		
	1	**Deposit for Project** As materials are purchased monthly billings will be sent to show disbursements from the $62,500.00, updating the credit balance remaining.	62,500.00	62,500.00
		Invoice Coding Activity - # 10019648 Process - # 340 Department - # 7130 Resource - # see below Labor: 1821 Materials: 1822 Engineering: 1808		

Please make checks payable to:

Public Water Supply District #7 of Cass County
106 E. Main St., box 345
Freeman, MO 64746

SUBTOTAL	62,500.00
Sales tax %	
SHIPPING & HANDLING	
PAYMENTS	
PLEASE PAY THIS AMOUNT	62,500.00

TERMS: Prior to Met's Purchase

Notice to Proceed

Per Aquila Contract Order #11008-1003

File Name: CBS 340

Date:_____

To: **Mr. Leonard Whiting**
Public Water Supply District No. 7
of Cass County, Missouri
106 E. Main St., Box 345
Freeman, MO 64746
(816) 250-2300

Please accept this as your notice to proceed regarding the Aquila Peek Use Power Plant located at 243rd and Harper Rd., Peculiar, Missouri on:

Project Title: Cass #7 North Feed Loop #2 & Fire Protection Improvements

To include: **Add 6200 Feet (+ or -) of 6" Feed Loops and Fire Hydrants per the 10/29/2004 letter at an Estimated Cost of $125,000.00, and not to exceed $125,000.00.**

Signature:_____ **Date:**_____
Authorized Aquila Representative

Printed Name:_____

Title:_____

Notice to Proceed

Per Aquila Contract Order #11008-1003

Date: 11/2/04

To: Mr. Leonard Whiting
Public Water Supply District No. 7
of Cass County, Missouri
106 E. Main St., Box 345
Freeman, MO 64746
(816) 250-2300

Please accept this as your notice to proceed regarding the Aquila Peek Use Power Plant located at 243rd and Harper Rd., Peculiar, Missouri on:

Project Title: Line Lowering at South Harper Peeking Facility Drive Entrance
Per 10/29/04 Letter & Bid

Please check (1) one and initial

☐ 6" Main Lowering - _____ (Initial)

☑ 8" Main Lowering – Alternate X TSH (Initial)

Signature: X Terry S Hedrick
Authorized Aquila Representative

Date: 11/2/04

Printed Name: Terry Hedrick

Title: Project Manager – Aquila

Fire Protection Agreement

West Peculiar Fire Protection District

James B. Toone
Fire Chief

200 South Main
Peculiar, MO 64078
(816) 779-5766
(816) 758-7423 (Fax)

Mr. Terry Hedrick
Aquila

August 26, 2005

Mr. Hedrick,

Attached is our Standard Operating Guideline for Commercial Structure Fires. This is a standard guideline that we would use for fires in commercial buildings or installations. We, of course would alter the SOG somewhat for the specific occupancy where a fire would occur. Your facility would call for some alterations to the plan, but would, in essence follow the attached Standard Operating Guideline.

Additionally, about 80% of our crews have completed a walk-through of your facility and understand its major hazards and know how to respond to keep your staff, our staff, and most importantly the public safe during an emergency.

Please contact me if you have any further needs or questions.

Respectfully,

James Toone
Fire Chief

The following is the accepted policy of the West Peculiar Fire Protection District for:

Policy: SOG | Section: Operational

Topic: RESPONSE TO COMMERCIAL STRUCTURE FIRES | March 2003

Purpose

To provide guidance for personnel responding to commercial structure fires.

Scope

This SOG applies to all who have the potential to respond to commercial structure fires within the West Peculiar Fire District.

Guidelines

- Priorities include:
  - Personnel safety (hazardous materials, structural integrity, etc.)
  - Protection of exposures
  - Establishing adequate water supply
  - Containment of fire.
  - Preserving property.
- The general attack regiment will be the same as for a residential structure fire but on a larger scale.
- Mutual aid should include a level two staging area with at least two stand-by engines and at least two stand-by tankers in cases where there is limited water supply.
- Specific tactics are left to the discretion of the incident commander.
- The Personnel Accountability System will be used on all commercial structure fires.

APPENDIX I

Noise Studies

Noise Study

for the

South Harper Peaking Facility
Peculiar, Missouri

for

Aquila, Inc.

Aquila

October 2006

Burns & McDonnell
SINCE 1898

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Noise Study
South Harper Peaking Facility
Peculiar, Missouri

prepared for

Aquila, Inc.
Kansas City, Missouri

October 2006

Project No. 43752

prepared by

Burns & McDonnell Engineering Company, Inc.
Kansas City, Missouri

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

1.0 INTRODUCTION

Burns & McDonnell has been contracted by Aquila, Inc. (Aquila) to conduct an environmental noise study for the South Harper Peaking Facility (SHPF). This simple-cycle facility consists of three Siemens-Westinghouse 501D5A combustion turbines. The existing land use in the vicinity of the South Harper Peaking Facility is a mixture of agricultural, industrial, and residential land use. The 73-acre site is located on flat to rolling terrain in Missouri, Sections 29 and 32, Township 45N, Range 32W, approximately three miles southwest of Peculiar, on South Harper Road near 243rd Street. The nearest residences are located to the east and north of the site. The combustion turbines are housed in an enclosure designed to abate sound. The inlet air and exhaust sections of the combustion turbines have silencing equipment to further minimize sound levels.

In its May 23, 2006 order approving Aquila's operation of the SHPF, the Missouri Public Service Commission stated as a condition of its approval, among other things, "sound abatement measures must be fully utilized and maintained (stack attenuation, turbine acoustical enclosures, berms, trees, and strict adherence by Aquila to the sound limits in its contract with the manufacturer) . . . ." Aquila has verified that they have fully complied with this condition.

The objective of this study was to measure the sound levels at the SHPF and compare them with the residential limits established by the Cass County Noise Disturbance Ordinance (No. 02-20). Key points along the fenceline were selected for sound level measurement.

2.0 CASS COUNTY REGULATIONS

Cass County, Missouri, developed a noise ordinance in 2002. This ordinance (Ordinance No. 02-20, Noise Disturbance) states:

> "It shall be unlawful to make or cause to be made a Noise Disturbance within the unincorporated area of Cass County. A Noise Disturbance shall include any or all of the following:
>
> a. A sound registered on a decibel meter from any source not exempted or otherwise regulated by this Ordinance and which, when measured anywhere off of the property of the sound source, is in excess of the dB(A) established for the time period and zones listed below.

Area	**7:00 a.m. – 10:00 p.m.**	**10:00 p.m. – 7 a.m.**
Residential	60 dB(A)	55 dB(A)
Commercial	65 dB(A)	60 dB(A)
Industrial	70 dB(A)	65 dB(A)"

Aquila has asked Burns & McDonnell to measure the SHPF noise levels and compare them with these limits. The Cass County ordinance does not distinguish whether noise levels are determined on a L_{eq} or L_{90} basis; however, both units of measurement have been used for noise standards in other areas. L_{eq} is the average of all noise measurements over the entire monitoring period, whereas L_{90} is the sound level that is exceeded 90 percent of the time during a measurement period. The intent of L_{90} is to filter out noises such as passing traffic, aircraft, and other transient noise sources that do not reflect the true sound level of the source. Because the ordinance does not specify which measurement is determinative, both L_{eq} and L_{90} have been examined for this report.

3.0 BACKGROUND NOISE ENVIRONMENT

An ambient noise measurement survey was conducted for the SHPF prior to the start-up of the three combustion turbines. On October 9, 2006, between the hours of 10:30 a.m. and 11:30 a.m., Burns & McDonnell personnel obtained background sound level measurements at key points on the property near the fenceline boundary (note that the fenceline is not the property boundary) to capture the ambient sound levels at those locations (Figure 4-1). These points approximate the four cardinal directions from the turbines at the fenceline boundary.

Weather conditions were favorable for conducting ambient sound measurements during the survey periods. Skies were mostly clear, winds varied between two and nine miles per hour, and temperatures were around 60 degrees Fahrenheit during the measurement periods. Relative humidity was between 44 and 47 percent.

At each location, measurements were made in decibels (dB) at 16, 31.5, 63, 125, 250, 500, 1,000, 2,000, 4,000, and 8,000 Hertz (Hz) using a Larson-Davis Model 824 Type I sound level meter. The sound level meter was calibrated before the background measurements. The calibration level change did not exceed ± 0.3 dB. A windscreen was used at all times on the meter, and the meter was mounted on a tripod, approximately five feet above ground with the microphone directed toward the turbines. The meter measured A-weighted L_{eq} and L_{90} sound levels along with A-weighted octave band frequency sound levels. Ten-minute measurement samples were recorded at each point (Figure 4-1). The measured dBA-weighted L_{eq} and L_{90} sound levels are presented in Table 3-1, along with a description of each measurement point. Ambient A-weighted L_{eq} sound levels varied from a low of 40.4 dBA at MP2 to a high of 49.7 dBA at MP4.

Table 3-1
Background Ambient Sound Levels (dBA)

Measurement Point	Location Description	L_{eq}	L_{90}
MP1	East of turbines on fenceline	40.7	38.9
MP2	West of turbines on fenceline	40.4	38.4
MP3	South of turbines on fenceline	46.6	45.1
MP4	North of turbines along 241st street	49.7	46.3

The similar L_{eq} and L_{90} values for all four measurement points indicate that there were few loud, transient noise sources during the sampling periods. MP4 had the greatest difference between the L_{eq} and L_{90} values (3.4 dBA), which was most likely due to a truck that drove by on the street located near MP4 during the measurement period. This may also have contributed to the overall noise level observed during this time period.

4.0 OPERATIONAL NOISE LEVELS

On October 9, 2006, between 1:20 p.m. and 2:45 p.m., Burns & McDonnell personnel collected noise measurements at positions (MP1 – MP6 on Figure 4-1) on the SHPF property near the fenceline boundary while all three SHPF combustion turbines were operating at full-load. These measurement locations were selected based on proximity to the turbines.

Atmospheric conditions were measured and recorded during each ten-minute measurement at each point. Temperatures were around 70 degrees Fahrenheit during the measurement periods, relative humidity was between 27 and 36 percent, and winds were between three and eight miles per hour.

The measured dBA-weighted L_{eq} and L_{90} sound levels are presented in Table 4-1, along with a description of each measurement point. Sound levels (L_{eq}) varied from a low of 44.8 dBA at MP4 to a high of 54.1 dBA at MP1. Each measurement was recorded on a ten-minute interval, with the exception of MP3. MP8 was located behind a berm directly south of the turbines along inside of the fenceline. This measurement was recorded for a two-minute period, and sound levels throughout the two-minute period were constant with no sharp fluctuations.

Table 4-1
Operational Sound Levels (dBA)

Measurement Point	Location Description	L_{eq}	L_{90}
MP1	East of turbines on fenceline	54.1	48.7
MP2	West of turbines on fenceline	50.0	49.1
MP3	South of turbines on fenceline	50.0	48.4
MP4	North of turbines along 241st street	44.8	42.9
MP5	Along the west fenceline; south of turbines	50.0	49.1
MP6	Along the south fenceline; east of turbines	44.8	42.9

MP1 and MP5 measurement points were both located along the east fenceline which borders South Harper Road. During both of the sampling periods, insect sounds were heard and three cars drove by on the adjacent street. These sounds may have contributed to the overall L_{eq} noise level, but would have a lesser effect on the L_{90} noise level during this time period.

During the measurement period at MP6, leaves rustling on the nearby trees and insects could be heard. Insect sounds could also be heard during the measurement periods at MP2, MP3, and MP4. In addition, the sound of birds chirping was heard during the measurement period at MP4. All of these sounds may have contributed to the overall L_{eq} noise levels.

Both the L_{90} and the L_{eq} noise levels at each of the above listed measurement points were below the nighttime Cass County Noise Disturbance Ordinance residential limit of 55 dBA. Therefore, based on this noise study, the SHPF complies with the Cass County Noise Disturbance Ordinance regardless of which area applies.

Figure 4-1

5.0 CONTINUOUS NOISE MONITORING

In addition to the noise measurements discussed above, Burns & McDonnell personnel placed sound level meters at two nearby residences outside the property boundary (MP7 and MP8 on Figure 4-1) and performed continuous monitoring with these meters. The placement of these meters was designed to provide specific sound level analysis requested by certain neighbors. These noise meters collected sound level data continuously from about 10 a.m. to 5 p.m. During this period, the three combustion turbines were started, operated at full-load, and shut down. Additionally, the nearby Southern Star Company (SSC) compressor station (Figure 4-1) operated during this time frame. A description of the location of each of the continuous measurement points is provided in Table 5-1 as well as the overall L_{eq} and L_{90} noise levels for the seven-hour period. These values are for informational purposes only and are not intended to determine compliance with the Cass County ordinance, as these readings incorporate time periods when the units were not operating and also include sounds not attributable to the SHPF.

Table 5-1
Continuous Noise Monitoring Sound Levels (dBA)

Measurement Point	Location Description	L_{eq}	L_{90}
MP7	Residence on 241st street; north of turbines	44.6	40.7
MP8	Residence approximately 2,500 feet from the facility; southwest of turbines	45.4	41.3

The fluctuations of the L_{eq} and L_{90} values over the seven-hour time period are shown in Figures A-1 and A-2, provided in Appendix A. On each of the figures, the time of the turbine start-up, SSC compressor station start-up, and turbine shut-down is shown. The sound levels at the two measurement points appear to be unaffected by either the SHPF turbine operation or the SSC compressor station operation. Even though transient noises occurred during the measurement period (such as cars passing, dogs barking, etc.), all noise measurements (both Leq and L_{90}) were below 55 dBA at all times.

6.0 IMPACTS TO SENSITIVE NOISE RECEPTORS

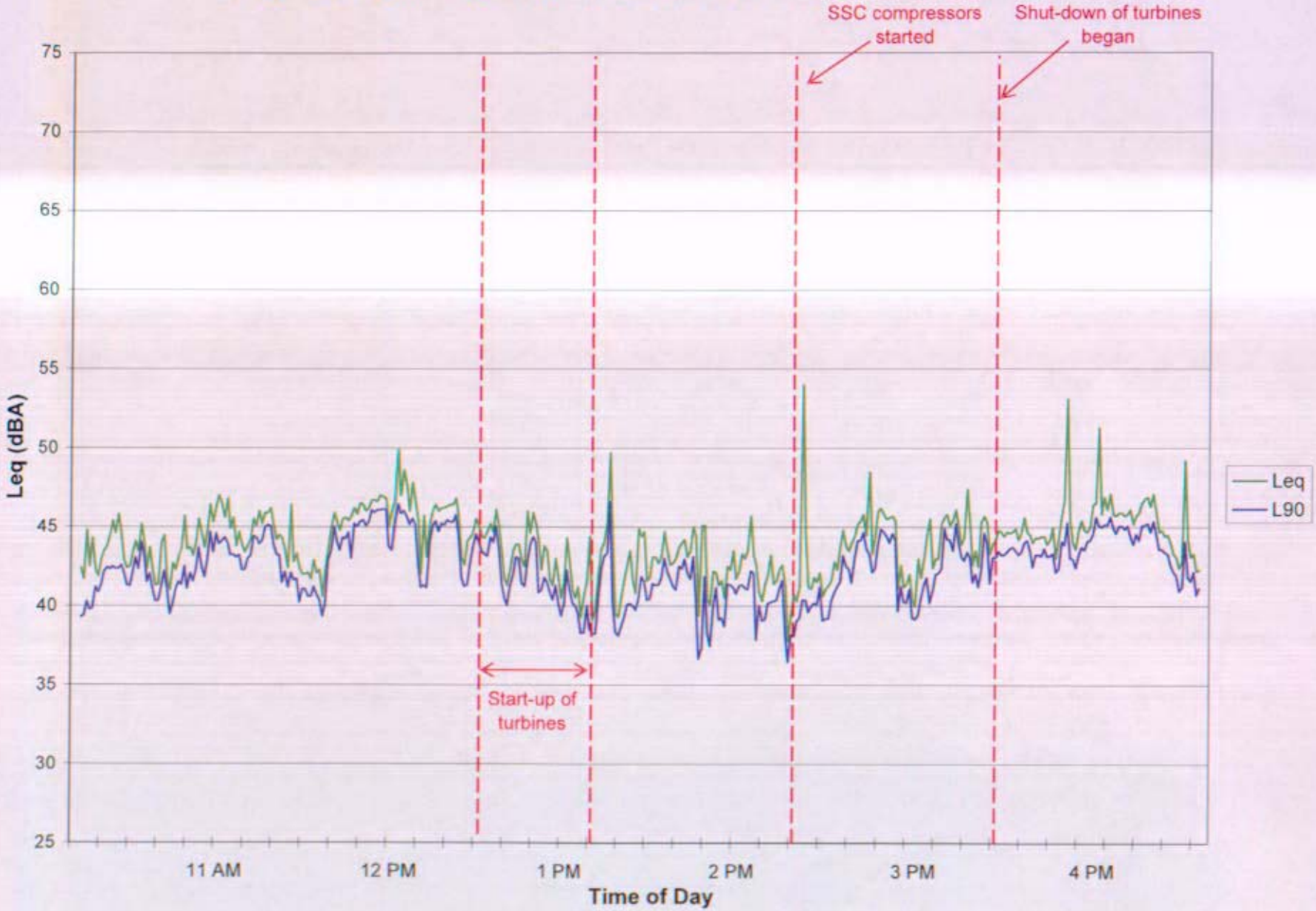
The sensitive noise receptors closest to the SHPF are residences. No schools, hospitals or other community facilities are located within one mile of the facility. Noise attenuating equipment has been added to the facility to minimize any potential impacts on the surrounding community. The operational noise measurements taken directly inside the fenceline are under the Cass County Noise Ordinance thresholds; therefore, no impact to sensitive noise receivers is expected.

7.0 CONCLUSION

A facility noise evaluation has been performed for the South Harper Peaking Facility located just outside the city limits of Peculiar, Missouri. The noise evaluation included an ambient noise survey to quantify the background acoustical environment as well as noise levels while the turbines were in operation to measure sound levels and compare them with the local residential noise ordinance.

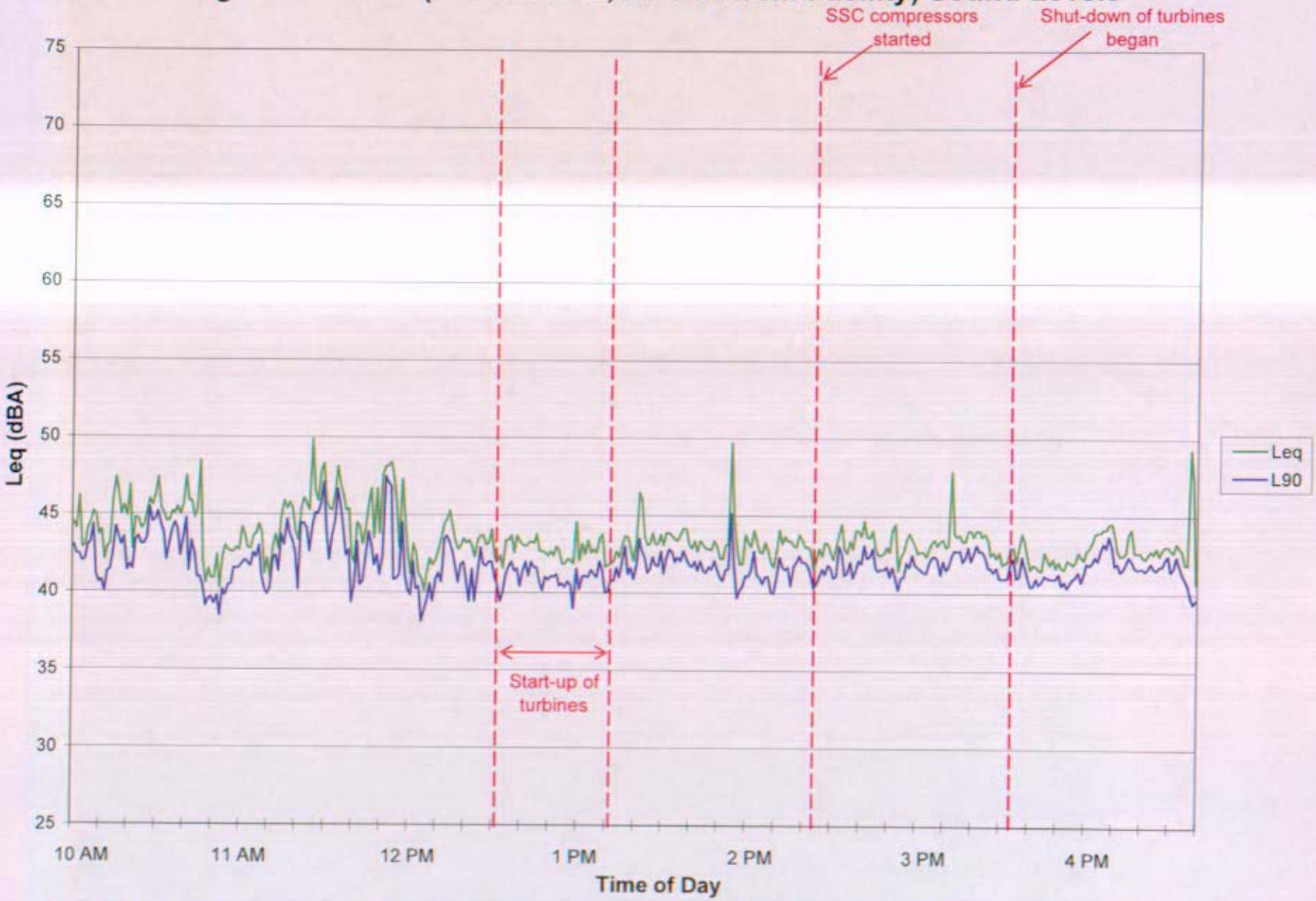
Specifically, not only were all of the fenceline noise measurements attributable to the SHPF combustion turbines below the daytime Cass County ordinance residential limit of 60 dBA, but they were also below the nighttime residential limit of 55 dBA. Based on this study, the South Harper Peaking Facility complies with the Cass County Noise Disturbance Ordinance regardless of which area applies.

Figure A-1: MP7 (Residence on 241st Street) Sound Levels



Note: Spikes in the Leq values during the measurement period are most likely due to extraneous noises (cars passing, dogs barking, etc.) not attributable to the SHPF combustion turbines. All measured noise levels were below 55 dBA.

Figure A-2: MP8 (Residence 2,500 feet from Facility) Sound Levels



Note: Spikes in the Leq values during the measurement period are most likely due to extraneous noises (cars passing, dogs barking, etc.) not attributable to the SHPF combustion turbines. All measured noise levels were below 55 dBA.

Residential
Noise Assessment Study

Aquila
South Harper Peaking Facility
Cass County, Missouri

Aquila

August 2005

Burns & McDonnell
SINCE 1898

Residential
Noise Assessment Study
Aquila
South Harper Peaking Facility
Cass County, Missouri

Prepared for:

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August 2005

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ENGINEERS-ARCHITECTS-CONSULTANTS

Kansas City, Missouri

Project No. 37273

EXECUTIVE SUMMARY

Background and operational sound measurements were taken at residences near the Aquila South Harper Peaking Facility. Operational measurements were taken when all three combustion turbines at the facility were operating at full load. Background sound measurements were taken while the facility was not operating. When the background noise measurements are compared to the operational noise measurements, the difference is insignificant. Although one can perceivably "hear" the sound from the plant, the change in the overall noise level is barely perceptible (3-5 dB increase at the closest residences).

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1.0 Introduction

Burns & McDonnell was contracted by Aquila to conduct a noise assessment study for the South Harper Peaking Facility (Facility) located in Cass County, Missouri. The Facility consists of three Siemens-Westinghouse 501D5A combustion turbines that operate in simple cycle mode. The existing land use in the vicinity of the project site can be characterized as a mixture of agricultural, industrial, and residential use. The site consists of 73 acres, located on flat to rolling terrain, in Township 45N, Range 32W, Section 29 and 32 approximately three miles southwest of the City of Peculiar on South Harper Road near 243rd Street. The nearest residences to the facility are located to the east and south of the site.

The objectives of this study are to conduct noise measurements to capture the ambient and operational sound levels in the vicinity of the project site, quantify the sound emissions from the Facility, and compare those measured sound levels to the Cass County noise ordinance (Ordinance No. 02-20, Noise Disturbance).

2.0 Acoustical Terminology

The human response to sound is complex and is influenced by a variety of acoustic and non-acoustic factors. Acoustic factors generally include the sound's amplitude, duration, frequency content, and fluctuations. Non-acoustic factors typically include the listener's ability to become acclimated to the sound, the listener's attitude towards the sound and the sound source, the listener's interpretation of the necessity of the sound, and the predictability of the sound. As such, response to sound is highly individualized.

Amplitude and frequency physically characterize sound energy. Sound amplitude is measured in decibels (dB) as the logarithmic ratio of a sound pressure to a reference sound pressure (20 microPascals). The reference sound pressure corresponds to the typical threshold of human hearing. A 3 to 5 dB change in a continuous broadband sound is generally considered "just barely perceptible" to the average listener. Similarly, a 6 dB change is generally considered "clearly noticeable" and a 10 dB change is generally considered a doubling (or halving) of the apparent loudness.

Frequency is measured in Hertz (Hz), which is the number of cycles per second. The typical human ear can hear frequencies ranging from approximately 20 Hz to 20,000 Hz. Typically, the human ear is most sensitive to sounds in the middle frequencies (1,000 to 8,000 Hz) and is less sensitive to sounds in the low and high frequencies. As such, the A-weighting scale was developed to simulate the frequency response of the human ear to sounds at typical environmental levels. The A-weighting scale emphasizes sounds in

the middle frequencies and de-emphasizes sounds in the low and high frequencies. Any sound level to which the A-weighting scale has been applied is expressed in A-weighted decibels, dBA. For reference, the A-weighted sound pressure level and subjective loudness associated with some common sound sources are listed in Table 2-1. Most ordinances, including Cass County's, are based on the A-weighting scale.

Table 2-1
Typical Sound Pressure Levels Associated with Common Sound Sources

Sound Pressure Level (dBA)	Subjective Evaluation	Environment	
		Outdoor	Indoor
140	Deafening	Jet aircraft at 75 ft	
130	Threshold of pain	Jet aircraft during takeoff at a distance of 300 ft	
120	Threshold of feeling	Elevated train	Hard rock band
110		Jet flyover at 1000 ft	Inside propeller plane
100	Very loud	Power mower, motorcycle at 25 ft, auto horn at 10 ft, crowd sound at football game	
90		Propeller plane flyover at 1000 ft, noisy urban street	Full symphony or band, food blender, noisy factory
80	Moderately loud	Diesel truck (40 mph) at 50 ft	Inside auto at high speed, garbage disposal, dishwasher
70	Loud	B-757 cabin during flight	Close conversation, vacuum cleaner, electric typewriter
60	Moderate	Air-conditioner condenser at 15 ft, near highway traffic	General office
50	Quiet		Private office
40		Farm field with light breeze, birdcalls	Soft stereo music in residence
30	Very quiet	Quiet residential neighborhood	Bedroom, average residence (without t.v. and stereo)
20		Rustling leaves	Quiet theater, whisper
10	Just audible		Human breathing
0	Threshold of hearing		

Source: Adapted from Architectural Acoustics, M. David Egan, 1988 and Architectural Graphic Standards, Ramsey and Sleeper, 1994.

Another weighting scale is the C-weighting scale. The C-weighting scale simulates the human ear's response to relatively high frequency sound levels. At high frequency sound levels, the response of the human ear to different frequencies is relatively constant. The C-weighting scale generally applies to

sound levels that are much higher than typical environmental sound levels. Nonetheless, the C-weighting scale can be useful in evaluating low-frequency sound levels. Excessive levels of low frequency noise, while not being readily perceptible to the human ear, can be sensed as airborne vibrations. These vibrations can be felt as much as they can be heard. In extreme cases, these vibrations may cause light frame structures to vibrate causing a noticeable vibration within residences. In general, low-frequency impacts to residences in the way of perceptible vibrations are minimized when the C-weighted sound pressure levels are at or below 75-80 dBC.

Sound in the environment is constantly fluctuating, such as when a car drives by, a dog barks, or a plane passes overhead. Therefore, sound metrics have been developed to quantify fluctuating environmental sound levels. These metrics include the exceedance sound levels. The exceedance sound level, L_x, is the sound level exceeded "x" percent of the sampling period and is referred to as a statistical sound level. The most common L_x values are L_{eq}, L_{90}, L_{50}, and L_{10}. L_{eq} is the level of a constant sound over a specific time period that has the same sound energy as the actual sound over the same period. L_{90} is the sound level exceeded 90 percent of the sampling period. L_{90} represents the sound level without the influence of loud, transient sound sources and is therefore often referred to as the residual or background sound level. L_{50} is the sound level exceeded 50 percent of the sampling period. L_{10} represents the occasional louder sounds and is often referred to as the intrusive sound level.

For this sound report, the most logical metric for sound measurements is L_{eq}. This report examines L_{eq} values and compares these measured levels with the applicable noise regulations.

3.0 Applicable Regulations

Burns & McDonnell reviewed applicable state, county and local noise regulations for the project. Cass County has developed a noise ordinance (Ordinance No. 02-20, Noise Disturbance) in 2002. This noise ordinance states that in residential areas, anywhere off property of the sound source shall not exceed 60 dBA during the daytime hours (7 AM through 10 PM), nor shall it exceed 55 dBA during the nighttime hours (10 PM to 7 AM) at the property boundaries of the noise source. This noise assessment study will compare measured noise levels at nearby residences to these noise ordinance specified noise levels.

4.0 Sound Measurement Methodology

On August 11, 2005 between 5:25 and 6:00 AM, ambient (background) sound measurements were taken at representative locations in the neighborhoods (Figure A-1 and Table 4-1) near the facility. None of the

combustion turbines on-site were operating. According to American National Standard, ANSI B133.8-1977, "measurements should not be made when average wind velocity exceeds 7 mph. Cloudy or overcast, or nighttime conditions are preferred". During the ambient sound readings, temperatures were approximately 78 degrees Fahrenheit, relative humidity was approximately 71 percent and average wind velocity was zero to two miles per hour (mph).

Table 4-1
Background Noise Measurement Point Locations

Measurement Point	Location Description
MP1	South Harper Road, South of Facility on Hill
MP2	24211 South Harper Road
MP3	24005 South Harper Road (Northeast of Facility)
MP4	New House on 241st Street, North of Facility
MP5	9804 241st Street, North of Facility
MP6	241st Street South of 24021 Lucille Residence
MP7	Intersection of Lucille and 241st Street
MP8	24407 Overfelt Road (on Street at Driveway)

Also on August 11, 2005 between 3:00 and 6:00 PM, Burns & McDonnell personnel conducted an operational noise level survey at nearby residences in the area while the Facility was operating at full load (all three turbines operating at 108 MW each). During the measurements, temperatures were in the mid-90's, humidity was approximately 40 percent and winds blowing an average of 6 miles per hour with gusts up to 12 miles per hour. The wind was predominantly from the southeast and switched to the southwest towards the end of the measurements. Because the wind was gusting at high speeds, secondary measurements were taken on August 12, 2005 at some of the nearest residences between 2 and 4 PM. Temperatures and humidity were relatively the same as on August 11, but measurements were only taken when wind velocities were less than 7 mph. Other measurements in the neighborhood were taken on Friday, August 19, 2005 at locations that were not available on previous measurement days. On that day, wind was 5 to 8 mph with gusts up to 12 mph, temperatures were approximately 99 degrees Fahrenheit, and relative humidity was 50 percent. A description, along with the measurements at each point is presented in Table 6-1.

Measurements were taken in decibels (dB) at one-third (1/3) octave bands (Hz) using two Larson-Davis model 824, American National Standards Institute (ANSI) Type 1 sound level meters. Both meters were

current for certifications and calibrations. At each monitoring location, sound levels at the referenced bands were measured and logged by the sound meter. Measurements were taken and accumulated until a stable sound level was reached, which was between 30 seconds to one minute. When necessary the meter was paused for traffic passing by the measurement point. The average sound level (L_{eq}) for each measurement point location was recorded. The contribution of the frequency bands to the total sound level is customarily weighted to approximate the frequency sensitivity of human hearing (dBA).

5.0 Background Sound Levels

The background noise measurements were taken while the South Harper Peaking Facility was not operating. Background sound was measured at each of the measurement points listed in Table 4-1 (and shown in Figure A-1) during the early morning hours before the plant was turned on and before traffic increased for morning rush hour. During the background noise measurements, some extraneous noises were observed. These noises are included for each measurement point along with the ambient A-weighted background noise levels, as shown in Table 5-1. The noise levels did not vary much between each measurement point; the variations in noise levels that did occur appeared to result from insect noise. Overall, the measured background noise levels are not uncommon for a rural area without traffic.

Table 5-1
Background Sound Pressure Levels, dBA

Measurement Point Number	Description	Sound Pressure Level, L_{eq} (dBA)	Extraneous Noises
MP1	South Harper Road, South of plant on hill	52.1	Insect noise
MP2	24211 S. Harper Road	45.8	Rooster noise
MP3	24005 S. Harper Road (Northeast of Facility)	41.8	
MP4	New house on 241st Street, North of plant	49.5	Insect noise
MP5	9804 241st Street, North of plant	58.4	Insect noise - Heavy
MP6	241st Street, South of 24021 Lucille residence	47.8	Insect and bird noise
MP7	Intersection of Lucille and 241st Street	44.4	Light insect noise
MP8	24407 Overfelt Road (on street at driveway)	45.3	Insect/bird noise, some distant traffic noise.

6.0 Operational Sound Levels

Operational noise levels were measured at each operational measurement point while the South Harper Peaking Facility was operating at full load (approximately 324 MW) during three different days, as described in Section 4. If vehicles passed by during measurements, the meter was paused so as not to inflate the measurements.

Table 6-1 displays L_{eq} measured noise levels at each measurement point. At some residences, multiple measurements were taken because the residents requested multiple measurements. Figure A-2, in Appendix A, displays the approximate location of each operational noise measurement taken in the surrounding community.

Table 6-1
Measured (L_{eq}) Operational Sound Pressure Levels, dBA

Measure-ment Point Number	Location Description	Sound Pressure Level, L_{eq} (dBA) 8/11/2005	8/12/2005	Notes
1A	24121 Lucille – Play area	50.0	43.9	Plant audible, bird noise
1B	24121 Lucille – Table in back	48.4	41.0	Plant audible
1C	24121 Lucille – Near garage	48.5	43.6	Plant audible
1D	24121 Lucille – Near driveway	42.8	41.8	Plant audible
2A	January – Front drive	46.9	39.0	Plant audible
2B	January – Back porch	43.9	44.4	Plant audible
2C	January – Back property line	45.3	44.3	Plant audible
3A	9908 241st St. – Road & Driveway	48.8	41.5	Plant audible
3B	9908 241st St. – Front door	46.6	47.4	Plant audible
4A	9812 241st St. – Road & Driveway	49.1		Plant audible
4B	9812 241st St. – Front Door	50.5		Plant audible
5	9804 241st St. – Driveway	49.9		Plant audible
6	9801 241st St. – Driveway	45.6		Plant audible
7	24000 Lucille – Driveweay	47.3		Plant audible
8	9204 241st St. – Driveway	44.6		Plant audible
9	24407 Overfelt – Driveway entrance	47.2		Plant audible
10	Rt. 1, Box 165, Overfelt	48.1		
11	24005 Lucille	45.1		Plant audible
12	23925 Lucille – Driveway	44.6		Plant audible
13	Across Street from 23925 Lucille – Driveway	46.2		Plant audible
14	23910 Lucille – Driveway	42.7		Plant audible
15	23817 Lucille – Driveway	51.1		Plant audible
16	23805 Lucille – Driveway	41.9		Plant audible
17	23717 Lucille – Driveway	40.3		Plant audible
18	23706 Lucille – Driveway	49.8		Plant not audible - electric box audible
19	23623 Lucille – Driveway	39.4		Plant not audible
20	236th Dead-End At trees	46.6+		Dog barking
21	23521 Lucille – Driveway	52.4		Dog barking
22	23520 Lucille – Driveway	43.0		Flag in yard making noise
23	23506 S Crest – Driveway	45.2		
24	23615 Greenridge – Driveway	50.0		
25	23601 Greenridge – Driveway	46.9		
26	Tunnicliff – Driveway	40.9		
27	24600 S. Harper – North fenceline	40.9		Plant audible
28	24800 S. Harper – Front yard	47.8		Plant not audible - tractor noise
29	Intersection S. Harper & 243rd St.	58.8+		Gas compressor station operating, plant audible, also
30A	10312 243d St. – Front yard	47.0		Plant audible, insect noise
30B	13012 243rd St. – Backyard	51.8		Plant audible, insect noise

Table 6-1, Continued

Measure-ment Point Number	Location Description	Sound Pressure Level, L_{eq} (dBA)		Notes
		8/11/2005	8/12/2005	
31A	10707 240th St. – Backyard	39.7		Plant audible, insect noise
31B	10707 240th St. – Front yard	43.7		Plant audible, insect noise
32	23300 Aero Dr. – Front yard	50.2		Plant not audible, insect and traffic noise
33	10501 E. 235th St. – Back yard deck	43.7		Plant not audible
34	Intersection S. Harper & 235th St	52.2+		Insect noise, traffic noise. Plant not audible
35	23903 S. Harper – Front yard	44.9		Plant audible
36	24405 S. Harper – Front yard	45.9		Plant audible, insect noise
37A	24401 S. Harper – Front yard	57.4		Leaves in wind noise - heavy
37B	24401 S. Harper – South side of property	48.5		Plant audible
38	House to north of 24211 S. Harper – Front yard	49.1		Plant audible
39	24211 S. Harper – Front yard	52.0		Plant audible
40	10606 243rd St. – Front yard	45.3		Plant audible
41	24214 S. Tanaine	49.6	47.8*	Plant not audible
42A	Aquila west property boundary, 350 ft. south of 214st St., 22 ft below plant elev.		53.2*+	Plant audible
42B	Aquila west property boundary, 350 ft. south of 214st St., 12 ft below plant elev.		58*+	Plant audible

*Measurement taken on 08/19/05.
+Measurement not taken at a residence.

The highest measured operational noise level was the measurement taken at the intersection of 243rd Street and South Harper Road (not a residence). The noise testing personnel observed that the gas compressor station was operating during the measurement. Because the compressor station was operating and was directly between the measurement point and the plant the measurement is high due to the noise from the compressor station. The only other operational measurement at a residence that was higher than 55 dBA was the measurement at 24401 South Harper Road. Noted during this measurement was that the wind was very high and the leaves on the trees were blowing and making significant noise.

In order to determine if any low or high frequencies are dominating the sound at the nearby residences, the octave bands were analyzed. Appendix B contains a sound spectral graph of the A-weighted one-third octave band frequency sound pressure levels at a representative measurement point on 241st Street. The figure displays the measured noise levels at each octave band frequency when the plant is not operating (background) and when the plant is at full load (operational). In reviewing both spectrums, it appears that the high-pitched tone that can be heard at some nearby locations is in the 1000 to 1250 Hz range.

Because the noise levels in these frequencies are 10 dB higher than the other frequencies, this frequency is more audible and may create a more tonal noise that "stands out".

During the near-field measurements around each of the combustion turbines on the site, the possible source of this tonal noise was determined to be the air inlet expansion joint. Aquila is currently obtaining information on possible attenuation that is available for this piece of equipment.

7.0 Conclusions

Noise levels in the neighborhoods around the South Harper Peaking Facility were measured while the facility was operating at full load and these measurements were compared to the existing background noise measurements when the facility is not operating. When the ambient noise measurements are compared to the operational noise measurements, the difference is insignificant. Although one can perceivably "hear" the sound from the plant, the change in the overall noise level is barely perceptible (3-5 dB increase at the closest residences).

APPENDICES

APPENDIX A
BACKGROUND AND OPERATIONAL NOISE MEASUREMENT POINTS

Figure A-
Background Measurement Point Locations

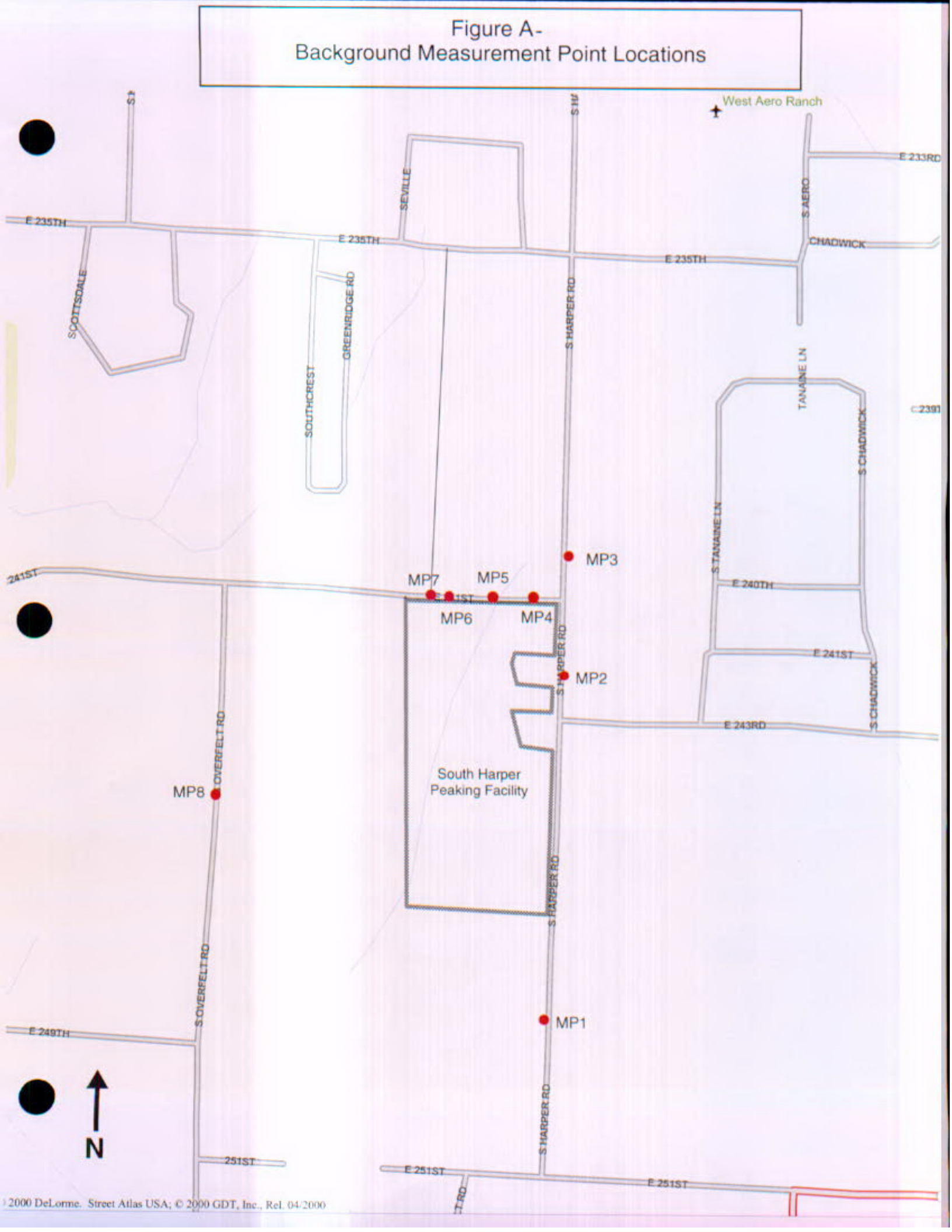
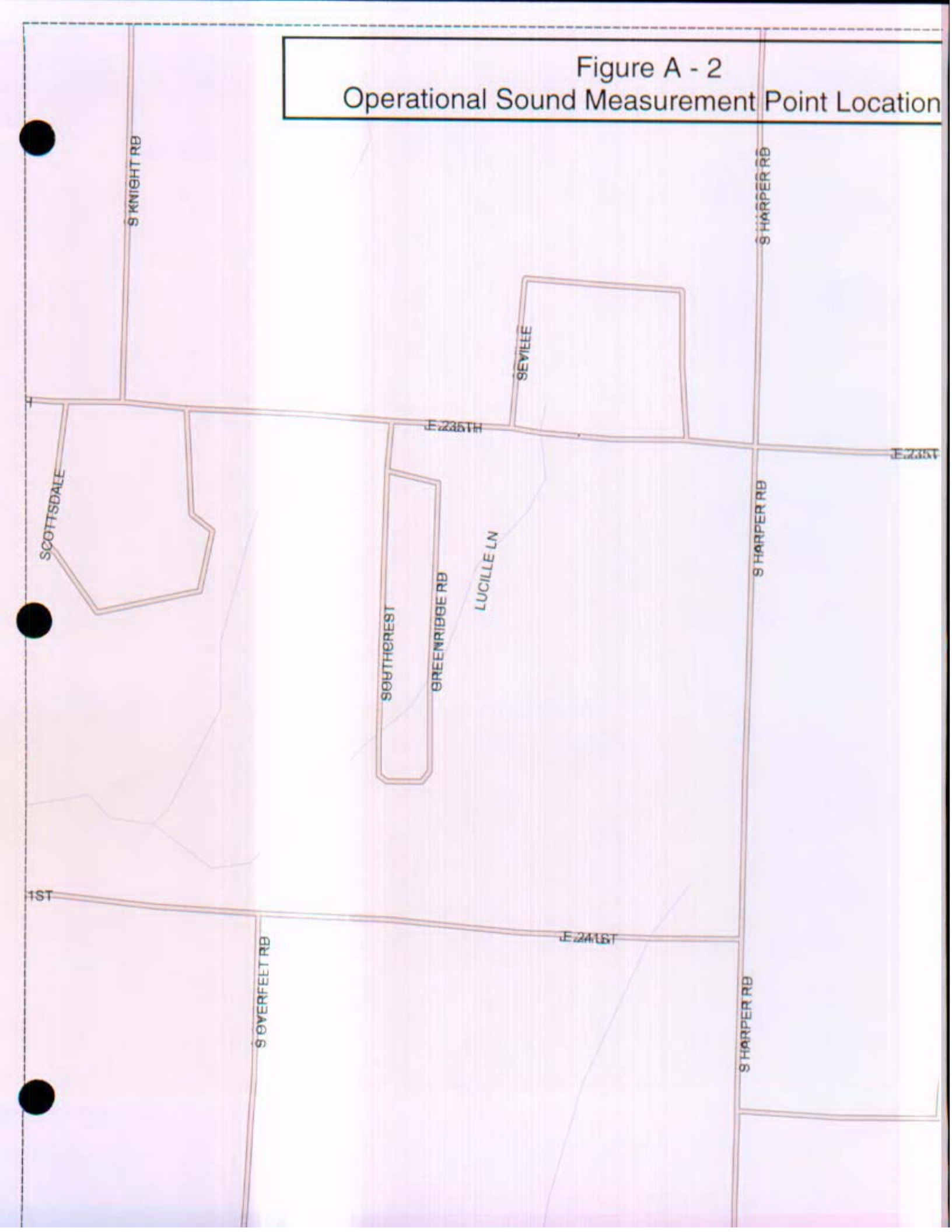
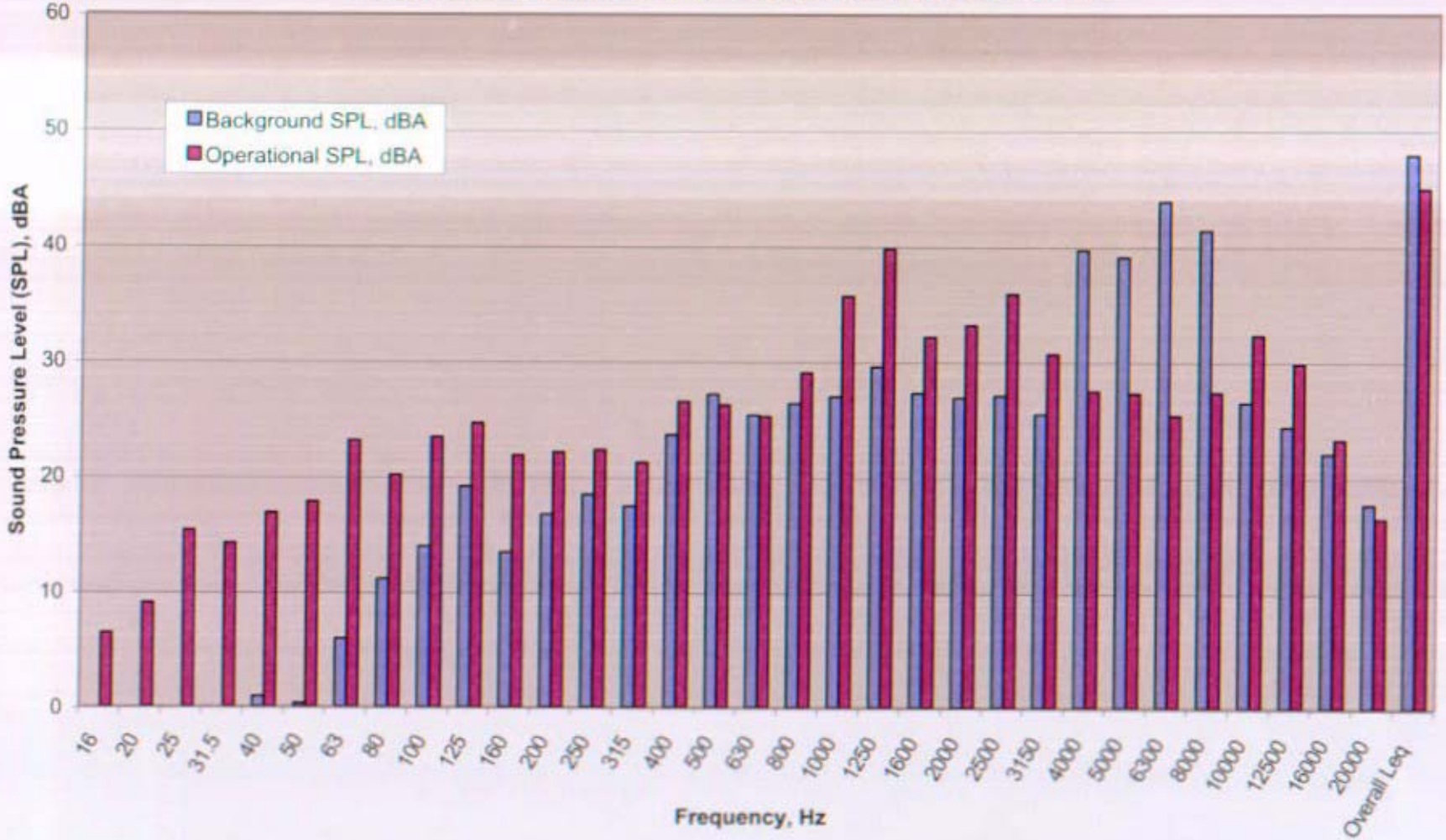


Figure A - 2
Operational Sound Measurement Point Location



APPENDIX B
1/3 OCTAVE BAND FREQUENCY SOUND PRESSURE LEVELS FOR BACKGROUND AND OPERATIONAL NOISE

Figure B-1
241st Street One-third Octave Band Frequency
Background and Operational Sound Pressure Levels (dBA)



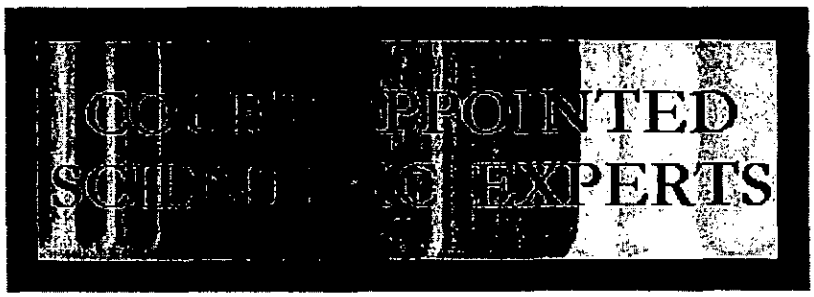
APPENDIX J

KANSAS UNIVERSITY

TOXICOLOGIST RESUMES

AAAS

Scientific Freedom, Responsibility and Law Program



COURT APPOINTED SCIENTIFIC EXPERTS
A Demonstration Project of the AAAS

- MAIN
- ADVISORY COMMITTEE
- SUBCOMMITTEES
- RECRUITMENT AND SCREENING PANEL
- BIOSKETCHES
- *CASE* EXPERIENCE
- HANDBOOKS

The project is staffed by Mark S. Frankel, Project Director; Deborah Runkle,Project Manager; and Kristina Schaefer, Program Associate.

Court Appointed Scientific Experts
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Court Appointed Scientific Experts is funded by the Leland Fikes Foundation and the Open Society Institute.

John Doull, M.D., Ph.D.
Recruitment and Screening Panel

Dr. John Doull is Professor Emeritus of Pharmacology and Toxicology in the Department of Pharmacology, Toxicology and Therapeutics at the University of Kansas Medical School. Prior to coming to Kansas, he was the Assistant Director of the University of Chicago Toxicity Laboratory and Associate Professor in the Department of Pharmacology at the University of Chicago. He has a BS degree in chemistry from Montana State University and PhD (pharmacology) and MD degrees from the University of Chicago.

He served on the Toxicology Study Section of NIH and the council of the National Institute of Environmental Health Sciences (NIEHS). He is past president of the Society of Toxicology and the American Board of Toxicology, has chaired the Threshold Limit Value Committee of the American Conference of Governmental Industrial Hygienists. He has served on the Expert Panels of the International Life Sciences Institute (ILSI), the Flavor Extract Manufacturing Association (FEMA), and the Distilled Spirits Council of the United States (DISCUS), and was a member of the Presidential Clean Air Commission. He has chaired the Committee on Toxicology of the National Research Council of the National Academy of Sciences, served on the scientific advisory panels of the Environmental Protection Agency (EPA), the National Institute of Occupational Safety and Health (NIOSH), among others, and consults with many governmental, state, industrial and private organizations.

He received the Kenneth DuBois Award in 1981 from the Mid-America chapter of Society of Toxicology, the Samuel Kuna Award in 1989 from Rutgers University (Robert Wood Johnson Medical School), the International Achievement Award in 1990 from the International Society for Regulatory Toxicology and Pharmacology, and the Commanders Award for Public Service from the Department of the Army Armed Forces Epidemiological Board (AFEB). In 1991, he received the Toxicology Ambassador Award from the Mid Atlantic

Chapter of the Society of Toxicology and a Distinguished Medical Alumnus Award from the University of Chicago. In 1992 he received the Stockinger Award from the American Conference of Governmental Industrial Hygienists (ACGIH) and was the first recipient of the John Doull Award, which was established by the Central States Chapter of the Society of Toxicology to recognize his contributions to the discipline of toxicology. In 1993, he received the Merit award of the Society of Toxicology and in 1994 he was honored as the Snider Awardee of the Arkansas Toxicology Symposium Series. In 1996 he received the Founder's Award from the Chemical Industry Institute of Toxicology (CIIT), was awarded an honorary doctorate degree from the University of Kuopio in Finland, the Meritorious Service Award from ACGIH and the Distinguished Service Award from the American College of Toxicology.

CURRICULUM VITAE

Karl K. Rozman, Ph.D., D.A.B.T.

Date of Birth: July 20, 1945

Place of Birth: Nagycenk, Hungary

Family:

Wife: Maria
Children: Marissa, Gabriella, Catarina, Alexandra

Citizenship: U.S.A.

Education/Degrees:

Matura (Secondary education and college): Realgymnasium, Innsbruck, Austria, 1963

Cand. phil. (M.S. equivalent): Leopold Franzen's University, Innsbruck, Austria, 1970 (Chemistry)

Dr. phil. (Ph.D. equivalent): Leopold Franzen's University, Innsbruck. Austria, 1973 (Organic and Pharmaceutical Chemistry)

Certifications:

American Board of Toxicology: 1981, recertified 1986, 1991, 1996, 2001

Academic Appointments:

Instructor, Institute of Organic and Pharmaceutical Chemistry, Leopold Franzen's University, Innsbruck, Austria, 1970-1973

Adjunct Assistant Professor, Department of Biology, New Mexico State University, Las Cruces, NM, 1978-1980

Assistant Professor, Department of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Center, Kansas City, KS, 1981-1982

Associate Professor, Department of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Center, Kansas City, KS, 1983-1985

Professor, Department of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Center, Kansas City, KS, 1986-present

Professional Affiliations:

Research Associate, Institute of Ecological Chemistry, National Research Center for Environment and Health, Neuherberg, F.R.G. (GSF-Forschungszentrum für Umwelt und Gesundheit, GmbH), at Holloman AFB, NM, 1974-1977

Group Leader, Institute of Toxicology, National Research Center for Environment and Health, Neuherberg, F.R.G. at Holloman AFB, NM and Kansas City, KS 1978-1988.

Visiting Scientist, Department of Experimental Pathology, Karl Thomae (Böhringer-Ingelheim) GmbH, Biberach an der Riß, F.R.G., Nov.-Dec., 1984

Visiting Scientist, Department of Experimental Pathology, American Cyanamid Co., Pearl River, NY, Jan.-March, 1985

Sabbatical Leave, National Research Center for Environment and Health, Neuherberg, F.R.G., 1988-1989

Head, Section of Environmental Toxicology, GSF-Institut für Toxikologie, Neuherberg, F.R.G., 1989-present

Languages:

English, German and Hungarian; fluent in speaking and writing

Professional Societies:

International Society of Ecotoxicology and Environmental Safety, 1978-
New York Academy of Sciences, 1979-
American Association for the Advancement of Science, 1980-
Society of Toxicology, 1983-
International Society for the Study of Xenobiotics, 1983-
Deutsche Gesellschaft für Pharmakologie und Toxikologie, 1984-
Sigma Xi, 1984-
American Society for Pharmacology and Experimental Therapeutics, 1985-
American Association of Pharmaceutical Scientists, 1986-
Society of Toxicologic Pathologists, 1988-
American Conference of Governmental and Industrial Hygienists, 1995-
Academy of Toxicological Sciences, 2002-

Organizations:

Member, Awards Committee, Society of Toxicology, Washington, DC, 1986-1988

Member, Executive Council, Environmental and Occupational Health Center, University of Kansas Medical Center, Kansas City, KS, 1986-

Chairman, Platform Session, Pesticides, 25th Annual Meeting of the Society of Toxicology, New Orleans, LA, March 5, 1986

Scientific Program Chairman, 6th International Symposium of the Society of Toxicologic Pathologists, Gastrointestinal Toxicologic Pathology, Philadelphia, PA, June 1-3, 1987

Chairman, Symposium, Morphological, Functional, Biochemical and Immunological Aspects of the Gut, 6th International Symposium of the Society of Toxicologic Pathologists, Philadelphia, PA, June 1, 1987

Liaison Representative, Society of Toxicology to Eurotox, Washington, DC, 1988-present

Member, BMFT Study Section on Dioxins and Furans, Bonn, F.R.G., 1988-1993

Member, Education Committee, Society of Toxicology, Washington, DC, 1989-1990

Member, Environmental Health & Safety Council, American Health Foundation, Valhalla, NY, 1989-1997

Chairman, Platform Session, TCDD I, 30th Annual Meeting of the Society of Toxicology, Dallas, TX, Feb. 25, 1991

Member, TLV Committee, American Conference of Governmental and Industrial Hygienists, Cincinnati, OH, 1992-1998

Liaison Representative, TLV Committee to the German MAK Kommission, 1992-present

Member, IEHR Expert Scientific Group on EPA's Dioxin Document, 1994-1995

Chairman, Platform Sessions, TCDD I, 35th Annual Meeting of the Society of Toxicology, Anaheim, CA, March 12, 1996

Vice-chair, TLV Committee, American Conference of Governmental and Industrial Hygienists, Cincinnati, OH, 1998

Member, Air Force Panel of Experts, ACTA, Torrance, CA, Commissioned by NRC, 1999

Member, NICEATM Expert Panel, Washington, D.C., 2000-20001

Chairman, Poster Discussion Session, Developmental and Reproductive Toxicology in Mammals, 40th Annual Meeting, Society of Toxicology, San Francisco, March 28, 2001

Member, Steering Committee, ILSI Agriculture Chemical Safety Assessment, Washington, D.C., 2001

Member, Site Visiting Team, Environmental Toxicology Program, Wilmington, NC, August 21-23, 2001.

Chairman, Advisory board to IBSA, Kansas City, KS, 2002 – present.

Member, NTP-CERHR Expert Panel, Reproductive and Developmental Toxicity of Propylene Glycol and Ethylene Glycol, 2002-2003.

Editor:

Gastrointestinal Toxicology, Elsevier, New York/Amsterdam/Oxford, pp. 606, 1986

Associate Editor:

Archives of Toxicology, 1991-present

Editorial Board:

Pharmaceutical Research, 1987-1995
Toxicology and Applied Pharmacology, 1989-1997
Archives of Toxicology, 1990-present
Toxicology, 2000 – present

Nonlinearity in Biology, Toxicology and Medicine, 2002 – present

Consultant:

American Cyanamid Co., Pearl River, NY, 1985-1988
Environmental Protection Agency, Washington, D.C., 1986-present
Reviewed Chlorobenzene, Drinking Water Criteria Document, 1986
Reviewed Dichlorobenzenes, Drinking Water Criteria Document, 1986
Reviewed Hexachlorobenzene, Drinking Water Criteria Document, 1986
Reviewed Polychlorinated Dibenzofurans, Drinking Water Criteria Document, 1986
Reviewed Dichloromethane, Health Assessment Document, 1987
Reviewed Trichloroethylene, Health Assessment Document, 1987
Reviewed 2,3,7,8-Tetrachloro-dibenzo-p-dioxin (TCDD) and Related Compounds, Health Assessment Document, 1996

Environmental Protection Agency, Region VII, Kansas City, KS, 1986-1987
Reviewed 2,3,7,8-Tetrachlorodibenzo-p-dioxin Risk Assessment, 1986

National Research Council, Subcommittee on Dioxin, Washington, D.C., 1987-1988
Co-authored Acceptable Levels of Dioxin Contamination in Office Building Following a Transformer Fire, 1988

BGA/UBA (Bundesgesundheitsamt/Umweltbundesamt) Berlin, F.R.G., Gesundheitliche Beurteilung von Dioxinen und Furanen, ISBN 3-89254-1174-4, 1992
BAGS (Behörde für Arbeit, Gesundheit und Soziales) Hamburg, F.R.G., Untersuchung der Schilddrüse und ihrer Funktion in der epidemiologischen Studie der Bille-Siedlung, 1994-1996

Teaching:

Undergraduate:

Medical Pharmacology (team teaching), 1981-present

Graduate:

Toxicology, 1978-present
Disposition of Xenobiotics, 1981-present
Advanced Toxicology, 1986-present
Toxicology of Pesticides, occasionally
Special Topics in Toxicology, occasionally

Principal Advisor:

Graduate Students:

Joel R. Gorski, 1984-1988, Ph.D.
Fan Fang, 1991-1995, Ph.D.
Xuelin Li, 1991-1995, Ph.D.
Steffen Ernst, 1992-1996, Dr.med.
Johann Wirsing, 1993-1999, Dr rer. nat
Xin Gao, 1996-1998, M.S.
Claire Croutch, 1998-present

Kristian Fried, 2000 - present

Postgraduate Fellows:

Eckhard Scheufler, Ph.D., 1982-1983
Lutz W. D. Weber, Ph.D., 1985-1987
Giacomo Muzi, M.D., 1985-1986
Bernhard Stahl, D.V.M., 1989-1992
William L. Roth, Ph.D., 1990-1991
Matti Viluksela, Ph.D., 1992-1994
Marja Viluksela, M.S., 1993-1994
Claire Redman, M.S., 1996-1997
Shakil Saghir, Ph.D., 1998-1999

Senior Associates:

Lutz W.D. Weber, Ph.D., Research Assistant/Associate Professor, 1988-1995
Laszlo Kerecsen, M.D., Research Associate Professor, 1993-1995
Bernhard U. Stahl, D.V.M., Research Assistant Professor, 1993-1995
Jan E. Storm, Ph.D. Research Assistant Professor, 1995-1999
Deok-Soo Son, D.V.M., Ph. D., Research Assistant Professor, 2000 – present

Honors:

Matura (Secondary education and college): Realgymnasium, Innsbruck, Austria, 1963, summa cum laude (= mit Auszeichnung)

Cand. phil. (M.S. equivalent): Leopold Franzen's University, Innsbruck, Austria, 1970 (Chemistry), summa cum laude

Dr. phil. (Ph.D. equivalent): Leopold Franzen's University, Innsbruck, Austria, 1973 (Organic and Pharmaceutical Chemistry), summa cum laude

Carrie-Schneider Award of the German Dermatological Society, Munich, F.R.G., 1988

Margin of Excellence Award, University of Kansas Medical Center, Kansas City, KS, 1989

Distinguished Visiting Professor, New Mexico State University, Las Cruces, NM, 1990

BIBLIOGRAPHY

Thesis:

Acylierungsprodukte (NH)- und (CH)-acider Verbindungen und deren Abwandlung durch Cyclisierung und Umlagerung.

(Acylation products of (NH)- and (CH)-acidic compounds and their modification by cyclisation and rearrangement).

Full-length Publications:

1. Rozman, K.K., Müller, W.F., Iatropoulos, M.J., Korte, F. and Coulston, F.: Ausscheidung, Körperverteilung und Metabolisierung von Hexachlorbenzol nach oraler Einzeldosis in Ratten und Rhesusaffen. *Chemosphere* **4**:289-298, 1975.

2. Iatropoulos, M.J., Milling, A., Müller, W.F., Nohynek, G., Rozman, K.K., Coulston, F. and Korte, F.: Absorption, transport and organotropism of dichlorobiphenyl, dieldrin and hexachlorobenzene in rats. *Environ. Res.* **10**:384-389, 1975.

3. Rozman, K.K., Müller, W.F., Coulston, F. and Korte, F.: Long-term feeding study of hexachlorobenzene in rhesus monkeys. *Chemosphere* **6**:81-84, 1977.

4. Rozman, K.K., Müller, W.F., Coulston, F. and Korte, F.: Chronic low dose exposure of rhesus monkeys to hexachlorobenzene. *Chemosphere* **7**:177-184, 1978.

5. Müller, W.F., Scheunert, I., Rozman, K.K., Kögel, W., Freitag, D., Richter, E., Coulston, F. and Korte, F.: Comparative metabolism of hexachlorobenzene and pentachloronitrobenzene in plants, rats and rhesus monkeys. *Ecotoxicol. Environ. Safety* **2**:437-445, 1978.

6. Rozman, K.K., Williams, J., Müller, W.F., Coulston, F. and Korte, F.: Metabolism and pharmacokinetics of pentachlorobenzene in the rhesus monkey. *Bull. Environ. Contam. Toxicol.* **22**:190-195, 1979.

7. Summer, K.-H., Rozman, K.K., Coulston, F. and Greim, H.: Urinary excretion of mercapturic acids in chimpanzees and rats. *Toxicol. Appl. Pharmacol.* **50**:207-212, 1979.

8. Ballhorn, L., Rozman, T., Rozman, K.K., Korte, F. and Greim, H.: Cholestyramine enhances fecal elimination of pentachlorophenol in rhesus monkeys. *Chemosphere* **10**:877-888, 1981.

9. Rozman, K.K., Rozman, T. and Greim, H.: Enhanced fecal elimination of stored hexachlorobenzene from rats and rhesus monkeys by hexadecane or mineral oil. *Toxicology* **22**:33-44, 1981.

10. Rozman, T., Rozman, K.K., Williams, J. and Greim, H.: Enhanced fecal excretion of mirex in rhesus monkeys by 5% mineral oil in the diet. *Drug Chem. Toxicol.* **4**:251-262, 1981.

11. Rozman, K.K., Rozman, T., Greim, H., Neiman, I.J. and Smith, G.S.: Use of aliphatic hydrocarbons in feed to decrease body burdens of lipophilic toxicants in livestock. *J. Agr. Food Chem.* **30**:98-100, 1982.

12. Rozman, K.K., Rozman, T., Williams, J. and Greim, H.: Effect of mineral oil and/or cholestyramine in the diet on biliary and intestinal elimination of 2,4,5,2N,4N,5N-hexabromobiphenyl in the rhesus monkey. *J. Toxicol. Environ. Health* **9**:611-618, 1982.

13. Rozman, T., Ballhorn, L., Rozman, K.K., Klaassen, C.D. and Greim, H.: Effect of cholestyramine on the disposition of pentachlorophenol in rhesus monkeys. *J. Toxicol. Environ. Health* **10**:277-283, 1982.

14. Rozman, K.K., Summer, K.-H., Rozman, T. and Greim, H.: Elimination of thioethers following administration of naphthalene and diethylmaleate to the rhesus monkey. *Drug Chem. Toxicol.* **5**:265-275, 1982.

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19. Rozman, K.K., Rozman, T. and Greim, H.: Stimulation of nonbiliary, intestinal excretion of hexachlorobenzene in rhesus monkeys by mineral oil. *Toxicol. Appl. Pharmacol.* **70**:255-261, 1983.

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22. Siegers, C.P., Rozman, K.K. and Klaassen, C.D.: Biliary excretion and enterohepatic circulation of paracetamol in the rat. *Xenobiotica* **13**:591-596, 1983.

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25. Rozman, K.K., Rozman, T. and Greim, H.: Effect of thyroidectomy and thyroxine on 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) induced toxicity. *Toxicol. Appl. Pharmacol.* **72**:372-376, 1984.

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27. Scheufler, E. and Rozman, K.K.: Effect of hexadecane on the pharmacokinetics of hexachlorobenzene. *Toxicol. Appl. Pharmacol.* **75**:190-197, 1984.

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30. Rozman, K.K.: Separation of wasting syndrome and lethality caused by 2,3,7,8-tetrachlorodibenzo-p-dioxin in the rat. *Toxicol. Lett.* **22**:279-285, 1984.

31. Rozman, K.K.: Hexadecane increases the toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD): is brown adipose tissue the primary target in TCDD induced wasting syndrome? *Biochem. Biophys. Res. Commun.* **125**:996-1004, 1984.

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33. Rozman, T., Scheufler, E. and Rozman, K.K.: Effect of partial jejunectomy and colectomy on the disposition of hexachlorobenzene in rats treated or not treated with hexadecane. *Toxicol. Appl. Pharmacol.* **78**:421-427, 1985.

34. Rozman, K.K.: Intestinal excretion of toxic substances. *Arch. Toxicol. Suppl.* **8**:87-93, 1985.

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147. Gao, X., Terranova, P.F., and Rozman, K.K.: Blockage of ovulation by polychlorinated dibenzofurans (PCDFS), biphenyls (PCBS) and their mixture with dibenzo-p-dioxins (PCDDS) supports the toxic equivalency (TEQ) concept. *Toxicologist* **54** (1-S): 280, 2000.

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156. Croutch, C.R., Lebofsky, M., DeZoysa, A., Son, D.S., Fried, K.W., and Rozman, K.K.: Time dependence of TCDD- and HXCDD-induced CYP 1A1 expression as measured by EROD activity, Western and Northern blots. *Toxicologist* **66** (1-S): 169, 2002.

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159. Petroff, B.K., Gao, X., Ohshima, K., Shi, F., Son, D.S., Roby, K.F., Rozman, K.K., Watanabe, G., Taya, K., and Terranova, P.F.: Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on serum inhibin concentrations and inhibin immunostaining during follicular development in Sprague-Dawley rats. *Toxicologist* **66** (1-S): 376, 2002.

160. Gao, X., Petroff, B.K., Oluola, O., Rozman, K.K., and Terranova, P.F.: Effects of indole-3-carbinol and tamoxifen on ovulation and its hormonal regulation—comparison to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). *Toxicologist* **66** (1-S): 376, 2002.

161. Croutch, C.R., Lebofsky,M., Cherrington, N.J., Klaassen, C.D., and Rozman, K.K.: Differential reversibility of CYP1A1 induction in TCDD versus HxCDD treated rats. *Toxicologist* **72** (1-S): 360, 2003.

Invited Lectures:

Sept. 5, 1978	University of Amsterdam	Amsterdam, Holland
June 30, 1980	Michigan State University	East Lansing, MI
July 2, 1980	University of Marburg	Marburg, F.R.G.
July 4, 1980	University of Wageningen	Wageningen, Holland
March 25, 1982	University of Kansas	Lawrence, KS
May 24, 1982	American Chemical Society Toxicology-Short Course	Washington, DC
Sept. 15, 1982	American Chemical Society National Meeting	Kansas City, MO
Nov. 4, 1982	Velsicol Chem. Corp.	Chicago, IL
Dec. 3, 1982	University of Pecs	Pecs, Hungary
Dec. 19, 1982	University of Bern	Bern, Switzerland
June 15, 1983	American Chemical Society Toxicology-Short Course	New York City, NY
April 3, 1984	Banbury Conference	Cold Spring Harbor, NY
April 24, 1984	INTERx/Merck & Co.	Lawrence, KS
May 24, 1984	Merck, Sharp & Dohme Research Laboratories	Rahway, NJ
June 13, 1984	25th Congress of the European Society of Toxicology	Budapest, Hungary
Oct. 30, 1984	National Research Center for Environment and Health	Neuherberg, F.R.G.
Feb. 25, 1985	American Cyanamid Co.	Pearl River, NY
March 4, 1985	University of Amsterdam	Amsterdam, Holland
April 18-19, 1985 (2)	New Mexico State University	Las Cruces, NM
June 19, 1985	University of Kuopio	Kuopio, Finland
June 20, 1985	National Public Health Institute	Kuopio, Finland
June 24, 1985	University of Lübeck	Lübeck, F.R.G.
June 27, 1985	University of Innsbruck	Innsbruck, Austria
July 30, 1985	Gordon Research Conferences	Meriden, NH
Aug. 9, 1985	American Academy of Clinical Toxicology	Kansas City, MO

March 14, 1986	Deutsche Gesellschaft für *Pharmakologie und* Toxikologie	Mainz, F.R.G.
April 3, 1986	New Mexico State University	Las Cruces, NM
Nov. 3, 1986	American Association of Pharmaceutical Scientists	Washington, DC
March 9, 1987	Monsanto Co.	St. Louis, MO
June 1, 1987	Society of Toxicologic Pathologists	Philadelphia, PA
Sept. 1, 1987	Environmental Protection Agency, Region VII	Kansas City, KS
Oct. 25, 1988	University of Würzburg	Würzburg, F.R.G.
Nov. 14-16, 1988 (3)	ETH and University of Zürich	Schwerzenbach, Switzerland
Apr. 6, 1989	University of Tübingen	Tübingen, F.R.G.
May 12, 1989	University of München	München, F.R.G.
Jan. 16, 1990	The Toxicology Forum	Karlsruhe, F.R.G.
June 19, 1990	University of Zürich	Zürich, Switzerland
Nov. 5-9, 1990 (6)	New Mexico State University	Las Cruces, NM
March 1, 1991	American Health Foundation	Valhalla, NY
April 12, 1991	SOT/Central States	St. Louis, MO
April 24, 1991	American Association of Pharmaceutical Scientists	Arlington, VA
April 25, 1991	EPA	Washington, DC
May 27-28, 1991 (2)	GSF-Forschungszentrum	Neuherberg, F.R.G.
Sept. 24, 1991	Dioxin '91	Research Triangle Park, NC
Nov. 12, 1991	Dioxin-Information	Augsburg, F.R.G.
Nov. 13, 1991	GSF-Institut für Ökologische Chemie	Neuherberg, F.R.G.
Jan. 16, 1992	Comett III Module	Kuopio, Finland

Feb. 4, 1992	EPA	Research Triangle Park, NC
April 23, 1992	First Conference of of Toxicologic Pathologists	Nagoya, Japan
July 17, 1992	Tulane University	New Orleans, LA
Jan. 28, 1993	University of Würzburg	Würzburg, F.R.G.
Feb. 24, 1994	University of Louisville	Louisville, KY
Feb. 28, 1994	IEHR	Chicago, IL
Apr. 20, 1994	Analytica 94	München, F.R.G.
May 17, 1994	SECOTOX	Balatonaliga, Hungary
Oct. 11, 1994	Da Vinci Society	Kansas City, KS
Nov. 10, 1994	Third Annual Arkansas Toxicology Symposium	Little Rock, AR
Feb. 12, 1996	University of Oklahoma	Oklahoma City, OK
Sept. 4, 1996	Environmental Medicine Conference	Aspen, CO
Nov. 16, 1998	National Research Council (Deployed Forces)	Washington, DC
Jan. 29, 1999	National Research Council (Deployed Forces)	Washington, DC
Apr. 18, 1999	National Research Council (AEGLE)	Washington, DC
March 21, 2000	S.O.T.	Philadelphia, PA
Dec. 14, 2000	Ethics and Sustainability Dialogue Group	Washington, DC
Jan. 24, 2001	University of Missouri	Kansas City, MO
Dec. 3, 2001	University of Kansas	Kansas City, KS
Dec. 19, 2001	NIEHS	Research Triangle Park, NC
June 11, 2002	Int. Conference on Non-Linear Dose-Response Relationships in Biology, Toxicology and Medicine	Amherst, MA

Principal Investigator:

GSF (F.R.G.), 1981-1983, Enhanced removal of halogenated hydrocarbons from tissue stores, $172,000.

Penreco, a division of Pennzoil, Inc., 1982, Enhanced fecal excretion of DDE in dairy cattle, $5,000

Velsicol Chem. Corp., 1983, Decontamination of humans and livestock exposed to chlordane and heptachlor, $33,000

BRSG, 1983, Is induction of porphyria cutanea tarda by hexachlorobenzene Ca^{2+} mediated?, $3,000

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