

**STATE OF ALASKA ITB NUMBER 2523S019  
AMENDMENT NUMBER ONE**

***AMENDMENT ISSUING OFFICE:***



Department of Transportation & Public Facilities  
Statewide Contracting & Procurement  
P.O. Box 112500  
(3132 Channel Drive, Room 350)  
Juneau, Alaska 99811-2500

**THIS IS NOT AN ORDER**

**DATE AMENDMENT ISSUED: August 18, 2021**

**ITB TITLE:**

**Juneau Generator Maintenance and Repair Services**

**\*REVISED Bid Submission Date: Bid must be received by 2:00pm prevailing Alaska Time on August 29, 2022.**

**This is a mandatory return Amendment.** *Your bid may be considered non-responsive if this signed amendment is not received [in addition to your bid packet] by the date and time proposals are due*

Signature: Paul DiCarlo

Date: 8-18-2022

Name: Paul DiCarlo

Title: Procurement Specialist II

**Vendor Signature**

Business Name: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

As a result of amendment number one issued on August 18, 2022, the following questions have been submitted by the vendor community.

**Question 1:** Please provide complete unit data including Make, Model and Serial Number?

**Answer 1:** See Change #1 below for Technical Generator information including make, model, serial number and location.

**Question 2:** *Can you please provide site photos*

**Answer 2:** *Attachment number #4 Site Photos of this amendment has been incorporated and is part of the ITB.*

**Question 3:** *Please let us know the locations of generators for access of personnel, tooling, and supplies?*

**Answer 3:** *See Change #1 below for Technical Generator information including make, model, serial number and location.*

**Question 4:** *Under the maintenance list for load testing, is a building transfer test considered a loaded test or does a load bank need to be used to fulfill this requirement?*

**Answer 4:** *A load bank is required to fulfill the requirement.*

**Question 5:** *How long of a load test is required?*

**Answer 5:** *The load test of 80 percent of generator maximum load for two hours is required.*

**Question 6:** *What are the load bank cable tie in access points?*

**Answer 6:** *Load bank tie in access points are unit breakers and transfer switches all in the close proximity or attached to generators.*

**Question 7:** *What is the estimated cable run length from generator to suitable location of load bank?*

**Answer 7:** *See attachment #4 Site Photos for cable run lengths for all the generators.*

**Question 8:** *Is there a preferred month for services?*

**Answer 8:** *The preferred time for starting the tests is August-September.*

**Question 9:** *For Supervisory persons per ITB, is contract requiring supervisor on site with technician or supervisor readily available?*

**Answer 9:** *Please see Section 2.09 of the ITB under Scope of Work, Project Description.*

**Question 10:** *The ITB doesn't indicate the voltage of the generators?*

**Answer 10:** *Please see attachment #4 of this amendment, Site Photos for the voltage of each generator, location details and cable run lengths.*

**Question 11:** *Does the state have an oil disposal system in place at a DOT shop or are we expected to deal with it?*

**Answer 11:** *The contractor is responsible for all waste disposal.*

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In addition to the above questions, the following change to the ITB and associated documents have been made **Change #1:**

- Delete the Table titled **Technical Generator Listing** including the \*Note below it from Section 2.09 and replace with the following;

**Technical Generator Listing**

Unit	Building	Location	Generator	Model & S/N
EG-01	SOB	Room 733-PI next to loading dock	900 kw, Cat	3508 / 2AZ00493
EG-02	SOB	Outside across from loading dock	800, kw, Cat	C27 2A300152/
EG-03	AOB	Main St - Out between AOB & SOB	350 kw, Cummins	855G3350
*EG-04	DCH	123 4'th St. (inside basement)	175 kw, Cummins	NT270GC
EG-05	CPB	240 Main Street (behind building)	350 kw, Kohler	07U1837
EG-06	GOV	716 Calhoun St. (side room garage)	67 kw, Cummins	V220-03 / 07U1837
EG-07	DIB	802 3'rd St. Douglas (outside bldg.)	134 kw, Onan	46244502
EG-08	CB	150 3'rd St. (north side of building)	100 kw, MTU	OM924LA
*EG-09	DOT-7mile	DOT Complex (in boiler room)	Kohler, 20 KW	20ROP81
EG-10	APK-State Museum	Alaska State Museum on Whittier St.	600kw MTU 12V2000G85-TB	5352011551

**Note\* EG-09 motor maintenance and repair will be done by State Equipment Fleet. The generator will still need service and the system will need load bank testing. Also the generator is upstairs in the boiler room with stair access only. Cable run is approximately 100 feet if load bank not moved upstairs. 25 feet if moved upstairs. Generator voltages are provided in amendment #1 site photos.**

**\*Note EG-04 Load Bank needs to fit in to an elevator to get to generator location. The max width is 33 inches for door way to elevator. Elevator car is 72 "x 42".**

## Attachment #4

Remote for SOB EG-01 and EG-02.  
Generators can be run locally





EG-01 SOB-Cable run approx. 50 ft



EG-01-2 SOB



**CATERPILLAR®**Caterpillar Inc.  
100 N.E. Adams Street  
Peoria, IL 61629 USA**GENERATOR SET (ISO 8528)****GENERATOR SET SALES  
DESCRIPTION**

ENGINE MODEL	C27
GENERATOR MODEL	
GENERATOR SET S/N	2A300152
SALES ORDER REFERENCE	SCBYB
DATE OF MANUFACTURE	01 2017
DUTY	STANDBY
RATED POWER	1000 KVA
	800 KW

**EG-01-voltage****GENERATOR DATA DESCRIPTION**

RATED VOLTAGE	480	V
PHASE	3	
WIRE	12	LEAD
POWER FACTOR	.8	COS $\phi$
RATED FREQUENCY	60	Hz
RATED CURRENT	1203	A
RATED RPM	1800	RPM
GENERATOR CONNECTION	WYE	
CONNECTION CONFIGURATION	SERIES	
INSULATION CLASS	H	
SUB-TRANSIENT REACTANCE X"d	.1094	PER UNIT
	.0252	OHMS
TRANSIENT REACTANCE X'd	.1354	PER UNIT
	.0312	OHMS
SYNCHRONOUS REACTANCE	2.8802	PER UNIT
	.6636	OHMS
ZERO SEQUENCE REACTANCE	.0095	PER UNIT
	.0022	OHMS
EXCITATION VOLTAGE	45	VOLTS
EXCITATION CURRENT	3.1	AMPS
FRAME	1268	
ALTITUDE	1000	M
NEMA TEMPERATURE RISE	125	°C BY RESISTANCE
NEMA AMBIENT TEMPERATURE	40	°C

**GENERATOR OVERLOAD PROTECTED BY INHERENT DESIGN****GENERATOR S/N** **GDG00395****MADE IN** **GRIFFIN, GA, USA**

FMT 2300 fulfills 118-8452



**EG-02 SOB-Cable run  
approx. 75 ft.**





## RECYCLE

MON-TUES

Due to the bulk of recycling that we've been receiving in the recycling area we will not be accepting any recycling on THUR-FRI. Please hold any recycling until the next day or time. These restrictions apply to items, excluding members of the National Green.

Here at the recycling area we accept the following:

- ☑ Checkered Paper, boxed & Sealed
- ☑ White Paper, boxed & Sealed
- ☑ Cardboard, boxes & Pallets in original or Plastic bottles & Soda Cans, boxes

EG-02-2 SOB

EG-02-3 SOB



# CATERPILLAR

3512

GENERATOR SET

GENERATOR SET RATING

900 KW STANDBY

## GENERATOR DATA

MODEL

SR4

RPM

1800

HERTZ

60

GENERATOR  
FRAME NO.

804

GENERATOR  
PART NO.

5N5007

INCLUDE THE ABOVE INFORMATION AND SERIAL NUMBER  
WHEN ORDERING PARTS AND IN CORRESPONDENCE.

3 PHASE 4 WIRE

STANDBY

RATING

1125

KVA

900

KW

.8

PF

TEMPERATURE RISE BY RESISTANCE FOR CONTINUOUS LOAD

STATOR

130

°C

ROTOR

130

°C

480

VOLTS

1355

AMPS

EXCITATION

25.0

VOLTS

7.8

AMPERES

OVERLOAD CAPACITY

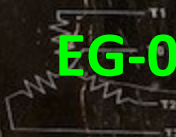
130

PERCENT FOR

2 HOURS

CONNECTION DIAGRAM


GENERATOR FRAME SHOULD BE GROUNDED

**EG-02-SOB-voltage**

EVERY 2000 SERVICE HOURS LUBRICATE GENERATOR BEARING. SEE  
THE OPERATION AND MAINTENANCE INSTRUCTIONS FOR DETAILED  
INFORMATION.

1W/858





EG-03 AOB-Cable run  
approx. 20 ft.



EG-03-2-AOB



AOB

**For Electrical Equipment Only**  
**Pour Matériel Electrique Seulement**


EG-04-DCH-Cable  
run approx. 25 ft.

MAINTENANCE SHOP



ELECTRICAL  
**DANGER**  
HIGH VOLTAGE  
NO UNTRAINED PERSONNEL ONLY

OIL



EG-04-2 DCH



EG-04 DCH-voltage



SINCE 1934

## ENGINE GENERATOR SYSTEMS

MODEL NO.

SERIAL NO.

175035

C1071

### AC GENERATOR

K. W.	175		P.H.	2	CPS.	60	WIRE	4	
K.V.A.	210		P.F.	8	RPM.	1800	FLD. AMP.		
VOLTS	277/480		APT.	264			FLD. VOLTS		
MODEL	E2021E2030V1316-2A			TYPE	BGKB Frame 505				
SPEC.	505074-5667N1			TEMP. RISE	90	C	INSUL. CLASS	F	
EXCITER	Brushless			REG.	K & R				
MODEL				TYPE	CS-712				
WATTS				VOLTS				FLD. AMP.	

### ENGINE

Curmins

Model NT270GC

Serial 10424245

THE INSTRUMENT LABORATORY, INC.  
SEATTLE, WASHINGTON      PORTLAND, OREGON



EG-05 CPB-Cable run approx. 100 ft. due to construction. 35 ft. when completed.



# EG-05 CPB-voltage

# KOHLER®

KOHLER CO. KOHLER WI. USA  
1-800-544-2444

MODEL 350RE0ZDD SERIAL 2268107  
SPEC. GM41981-GA3 MFG DT: 10/09  
SERVICE DUTY: STANDBY  
HZ: 60 RPM: 1800 FUEL: DIESEL  
AMB: 25°C BATT. 24 V

		KW	KVA	P.F.
SINGLE PHASE				
THREE PHASE		350.00	438.00	0.8
VOLTAGE (CODE)	120/240 (61) 1p	139/240 (51)	127/220 (51)	120/240 (01)
AMPS				
277/480 (71)	220/380 (71)	120/208 (81)	347/600 (91)	110/220 (01)
		1,214.00		110/190 (51)
110/220 (51) 1p	230/400 (71)	240/416 (71)		

GEN. MODEL: 4M4019  
INSUL: NEMA CLASS

H

MATL:  
350RE0ZDD



# KC

KOH

MODEL 350RE0ZDD  
ACCESSORIES

258811 Power F  
279750 Generat  
279989 Namepl  
324588 Battery  
333700 Voltage  
343513 Air Clea  
343596 Fuel/W  
GM13281-MA3  
GM16993-MA17  
GM19874-KA1  
GM28618-KA11  
GM28618-KA2  
GM28618-KA3  
GM28618-KA4  
GM28621-KA13  
GM28625-KA8  
GM35144-MA8  
GM35146-MA2  
GM38859-KA2  
GM41994-MA1  
GM42002-MA1  
GM52333-KA1  
GM52361-KA1  
GM54787-KA1



**EG-06 GOV-Cable run  
approx. 40 ft.**

EG-06-2 GOV





Model No.  
Modele

**DKAE - 5939993**

Serial No.  
Serie

**K070130652**

Spec. **D**

IMPORTANT!

Model & Serial No. Required When Ordering Parts.

Modele & No. Serie Requis Pour Commander Des Pieces.

**99-2433**

**CUMMINS POWER GENERATION**

**1400 73RD AVE. N.E.**

**MINNEAPOLIS, MN 55432 U.S.A.**

**MADE IN U.S.A.**

FREQUENCY SERVICE RATING PHASE RATED KW POWER FACTOR RATED KVA I2 CAPABILITY CONNECTION	60 HZ		PRIME	
	STANDBY		1PH	3PH
	1PH	3PH	1PH	3PH
	20.0	20.0	0.0	0.0
	1.0	0.8	0.0	0.0
	20.0	25.0	0.0	0.0
	8pct			

BATTERY	VOLTS	AMPS	AMPS
12 VDC	120/ 208	83.3	69.4
	120/ 240		60.1
	127/ 220		65.6
	133/ 230		62.8
ROTATING	139/ 240		60.1
SPEED	240/ 416		34.7
1800RPM	255/ 440		32.8
	266/ 460		31.4
NOMINAL	277/ 480		30.1
RATED			

INSUL:  
CLASS H  
AMB 40C

FUEL:  
Diesel

**EG-06 GOV-voltage**

WIRING DIAGRAM

**GOV**

RAD

# EG-07 DIB-voltage

Model No.  
Modele

DGFC-5565137

Serial No.  
Serie

G020397665

Spec.

E

### IMPORTANT!

Model & Serial No. Required When Ordering Parts.

Modele & No. Serie Requis Pour Commander Des Pieces.

99-2433

## CUMMINS POWER GENERATION

1400 73RD AVE. N.E.

MINNEAPOLIS, MN 55432 U.S.A.

MADE IN U.S.A.

FREQUENCY SERVICE RATING	60 HZ			
	STANDBY		PRIME	
PHASE	1PH	3PH	1PH	3PH
RATED KW	134.0	200.0	0.0	0.0
POWER FACTOR	1.0	0.8	0.0	0.0
RATED KVA	134.0	250.0	0.0	0.0
12 CAPABILITY CONNECTION	8pct WYE			

BATTERY	VOLTS	AMPS	AMPS
12 VDC	120/ 208	694	
	120/ 240	558.3	601.4
	127/ 220		656.1
ROTATING	133/ 230		627.6
SPEED	139/ 240		601.4
1800RPM	240/ 416		347
	255/ 440		328
NOMINAL	266/ 460		313.8
RATED	277/ 480		300.7

INSUL:  
CLASS H  
AMB 40C

FUEL:  
Diesel

WIRING DIAGRAM

0612-6692.

0612-6694.



For Electrical Equipment Only  
Pour Material Electrique Seulement





**EG-07 DIB-Cable  
run approx. 75 ft.**

EG-08 CB-Cable  
run approx. 30ft.





EG-08 CB-voltage



MODEL: MTU 4R0120 DS80  
SERIAL: 95130600592  
RATING: STANDBY SERVICE  
ENGINE: OM924LA  
RPM: 1800 Hz: 60  
kW: 80 kVA: 80

VOLTS	AMPS	PH	PF
120/240	333	1	1.0

WIRE CONFIG: DEDICATED  
TEMP. RISE / AMB. (°C): 130 / 40  
MAX. UNBALANCED LOAD:  $I_2 = 10\%$   
DIESEL FUEL:  
PER SPECIFICATIONS A001064/05E  
MAX. INLET FUEL FLOW:  
328.2 (86.7) L/h (gal/h)

Mfg. Date: June 2017

[www.mtuonsiteenergy.com](http://www.mtuonsiteenergy.com)



STATIONARY  
ENGINE  
GENERATOR  
ASSEMBLY  
4DA1



UNIT M  
PLACE  
SERVIC  
READ I



L'APPA  
AUTOM  
METTR  
POSITI  
MAINT  
LIRE L



LA UNI  
AUTOM  
COLOC  
POSIC  
MANTE  
LEA LA  
EL EQU





EG-09 DOT-7 mile-. Cable run is approximately 100 feet if load bank is not moved upstairs. 25 feet if load bank is moved upstairs.

EG-09-2 DOT 7 mile







EG-09-3 DOT 7 mile

# KOHLER GENERATOR SET

MODEL 20 ROP 81

SPEC 133002B

SER NO 011676

KW 20

PHASE 3

KVA 25

HERTZ 60

ALL RATINGS AT 85°F. & 500 FT. ALT.

VOLTS 120/208 RPM 1800

AMP 69.5 PF 0.8

WT

# BATT 24

EG-09 DOT 7 mile voltage

EGSMA

7

KOHLER®

KOHLER, WISCONSIN 53044 U.S.A.



**EG-10 APK-Cable  
run approx. 35 ft.**





MODEL: 750RXC6DT2

SERIAL: 365581-1-1-1013

RATING: STANDBY SERVICE

ENGINE: MTU 12V2000

RPM: 1800

Hz: 60

kW: 750

kVA: 937

VOLTS	AMPS	PH	WIRE	PF
277/480	1127	3	4/12	0.8

WIRE CONFIG: WYE

TEMP. RISE (°C): 80

DIESEL FUEL:

PER SPECIFICATIONS A001064/03E

MAX. INLET FUEL FLOW:

480 (127) L/h (gal/h)

[www.mtuonsiteenergy.com](http://www.mtuonsiteenergy.com)



STATIONARY  
ENGINE  
GENERATOR  
ASSEMBLY  
40A1

**EG-10 APK voltage**

# EG-10 APK voltage-2

 **MARATHON<sup>®</sup>**  
**ELECTRIC**

WAUSAU, WISCONSIN 54401 U.S.A.



## SYNCHRONOUS AC GENERATOR

MODEL 741RSL4045

PART NO. 53266

SERIAL WA-582765-1013 ADAPTION 9782462

FRAME 741 ENCL OPEN

TYPE RSL HZ 60

RPM 1800 AMB. 40 °C

INS.CLASS H1

RISE BY RES. 130 / 130 °C

FIELD AMPS 2.2

FIELD VOLTS 55

### STANDBY

### DUTY SERVICE RATINGS

VOLTS	PHASE	PF	KW	KVA	AMPS
277/480Y	3	0.8	1100	1375	1654
190/380Y	3	0.8	840	1050	1595
120/208Y	3	0.8	1000	1250	3470
120/240D	3	0.8	1000	1250	3007

9JX7

53266



LISTED ELECTRIC GENERATOR UL FILE E218422

B-527432