Request for information (RFI)

For the services I understand you are looking to preform 2 services, to confirm you are only looking to do one oil change but 2 filter changes along with the inspection? I would like to confirm that changing out the filters twice a year is not recommended by any manufacturer unless you are running these units 500 hours a year. Changing these filters that many times can get costly. **RESPONSE: Specification modified see below.**

What kind of sampling are you looking for? Diesel? Coolant? Oil? RESPONSE: All fluids

Are you looking for a coolant change every year since this might be a 5 year contract? **RESPONSE**: **Specification modified see below.**

When is the major work (oil changes, filter changes) going to be done? RESPONSE: Spring April/May

When will the minor inspection be done? In the bid it's indicating both are inspections **RESPONSE**: **Fall, six months after major PMI**

Can you confirm there no ATS above 480v RESPONSE: There are no ATS above 480 VAC

Is this bid a Prevailing wage Bid?. RESPONSE: Yes see spec section IIE. LAWS AND REGULATIONS 13. (b)

How many of the Gens/ATS are "emergency room" gens (i.e. Sunday's only)? **RESPONSE: 2 – generators OR3 and ACP. Other critical generators are in n+1 configuration.**

Is the fuel sample testing the new, DFAO2 test, or is it our standard fuel test? **RESPONSE: standard fuel test.**

Changes to Section III: Specifications: change entire section with following pages. Note differences are **highlighted in bold type**.

SECTION III: SPECIFICATIONS

MAINTENANCE AND REPAIR SERVICES SPECIFICATIONS

SCOPE OF SERVICES

GENERAL

Contractor shall provide two semi-annual inspection tests (one Preventative maintenance tune-up, fluid analysis and oil change July/August April/May, and one general test inspection January/February

October/November and all minor and emergency repair service to the emergency generator systems listed in Section III in accordance with manufacturer's guidelines. The Corporation reserves the right to add or delete equipment covered under the Award of Agreement at anytime. Appropriate adjustments will be made to the Base Contract Price for any changes.

2. GENERATOR SYSTEM INSPECTION PMI-PROCEDURE (July/August) April/May

a. Diesel Fuel System

(1) Provide fuel sampling and analysis by an independent professional testing laboratory for each of the generator systems listed in Section III(7). For systems that utilize a day tank, the fuel samples shall be collected from the day tank. A fuel analysis report shall be submitted within twenty (20) business days of the collection date.

Each report shall include: API gravity, distillations, flash point, calculated cetane, water %, sulphur content and micro fiber test.

- (2) Change oil filters.
- (3) Clean or replace air filter element
- (4) Inspect for and repair fuel leaks
- (5) Drain all water from fuel system, check for contamination.
- (6) Check operation of transfer pumps and day tanks.

b. Engine Cooling System

- (I) Secure coolant sample from each generator system and provide coolant analysis by an independent professional testing lab. Coolant analysis report shall be submitted within twenty (20) business days of the collection date. Each report shall include: % antifreeze and flash point, nitrite/molybdlate levels, pH level, corrosion products, silicate level, hardness, chlorides and sulfates.
- (2) Change coolant on closed systems if required by analysis. Cost of coolant change is NOT included in base price.

- (3) Check engine water pumps, circulating pumps and remote fan motors.
- (4) Check condition of hoses and connections (repair or replace as necessary)
- (5) Inspect and adjust fan belts (repair or replace as necessary)
- (6) Check operation of automatic coolers
- (7) Inspect and lubricate pulley hub bearing
- (8) Inspect and repair related intake and or exhaust ductwork
- (9) Check and Clean all louvers and automatic dampers.
- (10) Check and adjust operation of remote thermostatic or solenoid valves.
- (11) Repair ALL coolant leaks
- (12) Check operation of jacket water heater.
- (13) Check operation of transfer pumps and float switches.
- (14) Inspect all valves; check for correct position for proper operating controls.

c. .Engine Lubricating System

- (1) Secure an oil sample from used oil from each generator system and provide an analysis performed by a professional testing laboratory. A detailed report of oil analysis shall be submitted within twenty (20) business days with recommendations for each generator system. Fuel analysis shall include elemental analysis (spectroscopy, infrared spectroscopy, gas chromatography, viscosity, total base number (TBN), particle count, direct reading ferrography, and microscopic analytical ferrography.
 - (2) Change oil and lube oil filters
 - (3) Remove used oil from premises
 - (4) Service and clean crankcase breather
 - (5) Operation of lubricating oil heater
 - (6) Repair any lube oil leaks

d. Engine Electrical Starting System

- (1) Check battery electrolyte level and add distilled water where required.
- (2) Check battery terminals for corrosion and tightness
- (3) Check alternator or charger operation, including trickle charting unit
- (4) Check battery charging rate

e. Governor.

- (1) Check and lubricate all linkages, ball joints, and throttle controls, and adjust as required.
- (2) Check oil level
- (3) Inspect for oil leaks

f. Exhaust system.

- (1) Inspect all manifolds, brackets, mountings and flex connectors and tighten where necessary
- (2) Repair any exhaust leaks
- (3) Check for restricted exhaust, repair as needed
- (4) Tighten all connections
- (5) Visually check the exhaust system for wet stacking conditions. Include findings and recommended corrective measures on report

g. Generator

- (1) Check brush length and pressure and adjust as required.
- (2) Check appearance of and clean slip rings.
- (3) Blowout with clean compressed air
- (4) Clean windings
- (5) Check generator bearings
- (6) Operate electric set, check for correct voltage and frequency. Note any unusual noise or conditions, record and report immediately.
- (7) Test and adjust generator voltage regulator under single unit configuration without load and while under load
 - (8) Simulate and check operation of each safety shutdown device
 - (9) Check operation of automatic start-stop control and switches
 - (10) Check operation of generator control instrument
 - (11) Replace all faulty lamp bulbs

3. GENERATOR GENERAL INSPECTION PROCEDURE (January/February-October/November)

The general inspection shall include all of the above with the exception of changing fluids. Price quoted shall include all parts, labor, tools, equipment and travel as described, as well as all mileage and toll charges.

4. TRANSFER SWITCH ANNUAL INSPECTION PROCEDURE

Use Infra-Red Scanner To Detect Loose/Overheated Connections

Test & Calibrate The Following Components As Required:

Torque All Bus/Lug Connections Per Specifications

Lubricate As Required & Check Function Of Interlocks

Clean & Adjust Finger Relays and Contacts As Required

Calibrate All Phase & Voltage Sensitive Relays As Required

Test & Calibrate The Drop Out Voltage Of Sensors

Electrical Tests: (If Required - Refer To MFG'S Specs)

Insulation Resistance Test - Measure Resistance Of Each Bus Section Phase To Phase & Phase To Ground For 1 Min.

Contact Resistance Test - Measure For Each Bus

Overpotential Test - Perform On Each Section Of Bus Phase To Phase & Phase To Ground On Assemblies Rated Over 600 V.

Calibrate, Tighten, Repair, Clean, & Replace as Required.

4. MINOR REPAIR SERVICE

a. Minor repairs are defined as those jobs requiring less than 10 man-hours to accomplish. Labor for minor repairs shall be included in the base bid.

5. EMERGENCY SERVICE

- a. Emergency service shall be provided on an on-call basis, 24 hours a day, seven days a week.
- b. All emergency service calls shall be responded to within a maximum of two (4) hours of the call for service. For the purpose of this contract, responded to shall mean arrival on site prepared to resolve emergency. All labor for such emergency calls shall be included in the Base Contract Price.
- c. The Contractor shall be assessed damages in the dollar amount equal to the overtime hourly rate payable for services rendered hereunder for each hour, or part of an hour, beyond the maximum response time set forth herein that the contractor fails to respond to an emergency service call. In the event the Contractor fails to respond within the maximum response time, the Corporation in its sole discretion may elect to arrange for provision of emergency repair service from a source other than the Contractor. In such event, the Corporation shall immediately notify the Contractor verbally of such election, and the Contractor shall be liable for the cost to the Corporation for providing coverage. Said damages shall be assessed as a deduction from payments otherwise due and payable to the contractor for providing services rendered pursuant to the Agreement.
 - d. The number or emergency calls to whish the Contractor must respond is unlimited.

6. REQUIRED REPORTS

- a. A service report and data sheet, on forms approved by the Corporation, shall be required after each visit and shall be left with the Facilities Management Office, Macy Pavilion Room E004. Service reports for work completed when the Facilities office is closed shall be put in the mail slot in the door of the Facilities Department.
- b. Service reports shall accurately describe the work performed and include the date, building, location, equipment item# and mechanics signature. A representative of the Facilities Management Department shall sign all service reports.
- c. Fuel sample, oil sample and coolant sample reports shall be submitted within twenty business days of the date of sample.

7. COORDINATION OF WORK

- a. All preventive maintenance and inspection test work shall be coordinated through the Facilities Management Office #(914) 493-7320 forty eight (48) hours prior to work to be performed.
- b. Except for emergency repairs all work on the generators that are labeled as "critical" shall be scheduled so as not to interfere with rooms that may be in use. Work is usually scheduled for a Sunday two (2) weeks in advance or weekdays with work completed by six (6) A.M.
- c. All scheduled work for generators that do not serve rooms listed above shall be performed weekdays between 8:00 A.M. and 4:00 P.M.
- d. When requested by the Facilities Management Department the Contractor must perform the Preventive maintenance for a generator on other than regular hours. Under this condition the Contractor may invoice the Corporation for the difference between the daytime and the overtime hourly labor rate for the hours used to complete the requested work. This does not apply to work on generators listed in 7.b. above.

- e. It is understood the need for the Operating rooms cannot be scheduled and that area's may be in use when the Contractor arrives. In each contract year the Contractor shall be expected to make at least two separate visits to complete the work as part of the base contract bid. If the Contractor has arrived prepared to work and through no fault of his own has no other work that can be done at that time, the Contractor shall be paid the applicable rate for the mechanic's round trip travel time to a maximum of two (2) hours.
 - f. For each maintenance or service visit where system deactivation is necessary, Contractor shall notify the Facilities Management Department (914)493-7320. Work on the system must be continuous without interruption until system is returned to service.
- g. Contractor may, at his discretion, utilize other experienced specialist sub-contractors to perform such work as may be required to fully complete the Contractors preventative maintenance and / or emergency repairs. The Contractor shall be fully responsible for any and all work by subcontractors.

8. PARTS

- a. The Contractor shall maintain the most frequently used replacement parts, materials and supplies necessary for the Services to the Equipment for the term of the Agreement on inventory.
- b. Replacement parts not in the Contractor's inventory stock must be obtained within three (3) business days. These are defined as non-standard parts.
- 9. COVERED EQUIPMENT (GENERATOR LIST includes associated ancillary equipment)

Name	Description	Building
	Massaro Detroit Mod # 70837305	
OR2	Ser. # 8VA-419299	Macy Pavilion (Mechanical next to
(aka	KVA312.5 KW 250	Biomed)
"Bloodb		
ank"		
OR3	Caterpillar C18 ATAAC	Macy Pavilion (outside west façade)
	Ser. #	
	KVA750 KW600	
	480V 721A 1800 RPM (new 9/2013)	
	w/external load bank	
	CRITICAL	
	Mod # D3408	
внс	Caterpillar D Ser # 67U0861676	Behavioral Health Center (outside)
	KVA376 KW300	
	480Volt 451 Amp	

	Consolidated Mod #290D1				
TCC	Detroit Ser # 12VA034665	Taylor Care Center (outside)			
	Institute Outside D KVA 375 KW 300				
	wing				
Main 1	Caterpillar Mod # D398				
	Ser # 66B4236	Main Hospital (Plant)			
	KVA 844.4 KW 660				
	480 Volt 1059 Amp w/external load bank				
	CRITICAL HOWEVER ONE GENERATOR FROM				
	THE GROUP MAIN 1 -> MAIN 4 MAY BE OUT				
	OF SERVICE AT A GIVEN TIME				
	Caterpillar Mod # D398	Main Hospital (Plant)			
Main 2	Ser # 66B4563	, , ,			
	KVA 875 KW 700				
	480 Volt 1059 Amp w/external load bank				
	CRITICAL SEE MAIN 1				
	Caterpillar Mod # 512S1 D	Main Hospital (Plant)			
Main 3	Ser # 67Z00724	, , ,			
	KVA 875 KW 700				
	480 Volts 1052 AMP w/external load bank				
	CRITICAL SEE MAIN 1				
	Caterpillar Mod # 3412	Main Hospital (Plant)			
Main 4	Ser # 7AJ01779	, , ,			
	KVA875 KW 700				
	480 Volt 1052 w/external load bank				
	CRITICAL SEE MAIN 1				
CED	Detroit Mod # 500D54				
	Ser # 0727080	Cedarwood Hall (outside)			
	N/E corner) KVA 638 KW 500				
	280 Volt 1770 Amp				
ELM	Cumins Mod # 3300				
	Ser # 5CA04516	Elmwood Hall (outside)			
	KVA 156 KW 125				
	208 Volt 434 Amp				
n/a	Light Tower (see Specialty Lighting Mod #				
	ВТК64МН	Mobile unit			
	Facility Mgt Office) Ser # 010030435				
	L9971148				
MFCH 1	Caterpillar CAT00000JCMJ000369 1250 KW;	Maria Fareri Children's Hospital			
	1562 KVA, 1878A@480V	(roof mechanical room)			
	Model CAT 3512 s/n 1KZ00721	·			
	w/external load bank				
	CRITICAL HOWEVER ONE GENERATOR FROM				
	THE GROUP MFCH 1 AND 2 MAY BE OUT OF				
	SERVICE AT A GIVEN TIME				
	i	i			

MFCH 2	Caterpillar CAT00000JCMJ000368 1250 KW;	Maria Fareri Children's Hospital
	1562 KVA, 1878A@480V	(roof mechanical room)
	Model CAT 3512 s/n 1KZ00720	
	w/external load bank	
	CRITICAL SEE MFCH 1	
ACP	Caterpillar CAT3512C 1500 KW 1875 KVA s/n	Outside (west façade)
	LYH00253	
	w/external load bank (NEW 2019)	
	CRITICAL	

10. COVERED EQUIPMENT (TRANSFER SWITCHES)

		On					
Switched/ Date?	Description	Generato r		Equip. Ind. Ex.	Building	Room	SubLocation
	ATS BHC	ВНС		50240	BHC	B-035	Elect. Dist. Rm.
	ATS Cedarwood		Cedarwoo d	46181	WIHD	AG-01	Elect. Rm.
		Elmwoo					
	ATS Elmwood SW-1	d		51178	Elmwood		Elect. Dist. Rm.
	ATS Elmwood SW-2			51179	Elmwood		Elect. Dist. Rm.
	ATS Elmwood SW-3			70546	Elmwood		Elect. Dist. Rm.
	ATS-2 Macy		OR 3	48938	Macy	0311	NW Dist.Rm
	ATS STAT Flight			48400	Macy	0409	Surg. Suite Substa SE-3
	ATS ES-SSXS-3			51232	Macy	0409	Surg. Suite Substa SE-3
	ATS SE			51235	Macy	0409	Surg. Suite Substa SE-3
	ATS ES-SSXS-1			51236	Macy	0409	Surg. Suite Substa SE-3
	ATS CS-SSXS-2			51237	Macy	0409	Surg. Suite Substa SE-3
	ATS-PP-7			71472	Macy	0409	Surg. Suite Substa SE-3
	ATS-GEN			71473	Macy	0409	Surg. Suite Substa SE-3
	ATS-1 Macy NWXS-1			46006	Macy	0313	SE-4
	ATS-3 Bloodbank Generator	OR-2		45965	Macy	W0067	S/W Mechanical Rm
	ATC VD		Main 1.2	40007	Main Hann	25 114	Control Buy Coth 4
	ATS-XB		Main 1, 2,	49096	Main Hosp.	2E-11A	Control Rm Cath 4
	ATS-Cardiac Cath		3 and 4	49095	Main Hosp.	2E-22	Cath Lab nt Room2
	ATS-XA			49097	Main Hosp.	2E-11A	Control Rm Cath 4
	АТОЛА			1 7071	iviaiii 110sp.	21:-11A	Control Kill Calli 4
	ATS ER-2			71599	Main Hosp.	LLL-03	SE-26 Emergency 2
_	ATS LS-2			71591	Main Hosp.	LLL-03	SE-26 Emergency 2
	ATS ES-2			71592	Main Hosp.	LLL-03	SE-26 Emergency 2

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 ATS CS-2			71593	Main Hosp.	LLL-03	SE-26 Emergency 2
 ATS CS-3			71595	Main Hosp.	LLL-03	SE-26 Emergency 2
 ATS ES-3			71594	Main Hosp.	LLL-03	SE-26 Emergency 2
 ATS CAT-1TS			46253	Main Hosp.	LLK-04A	Mech Rm 2
 ATS ELEV-Pt			71138	Main Hosp.	LLF-04	Emerg Switchgear Rm 1
ATS-PUBLIC-ELEV			71605	Main Hosp.	Elev mach rm	Mech Rm 4
 ATS ES-1	<u> </u>		71136	Main Hosp.	LLF-04	Emerg Switchgear Rm 1
 ATS CAT-2TS	<u> </u>		46264	Main Hosp.	LLK-04A	Mech Rm 2
 ATS LS-1	<u>-</u> ;		71137	Main Hosp.	LLF-04	Emerg Switchgear Rm 1
 ATS CONTROLLER FIRE PUMP			70481	Main Hosp.	LLF-03	LLF-03 Chiller Rm
 ATS MCC-1A-EM (formerly ATS-ES-1A)			70477	Main Hosp.	LLF-04	Emerg Switchgear Rm 1
 ATS-CS-1			70478	Main Hosp.	LLF-04	Emerg Switchgear Rm 1
 ATS-MCC-1-EM Emergency (formerly ATS-MCC)			71131	Main Hosp.	LLF-04	Emerg Switchgear Rm 1
MTS Electric Chiller (manual transfer do not test)	<u> </u>		70074	Main Hosp.	LLF-03	LLF-03 Boiler Rm Upper level
 ATS-1H08			71340	Main Hosp.	1H49	Radiology
 ATS-1H39	TOO		71341	Main Hosp.	1H49	Radiology
	TCC					
ATS-LS	TCC		70485	Taylor Care	GK-18	Fire panel room
ATS-ES			70486	Taylor Care	GK-18	Fire panel room
 ATC-CS	-		70487	Taylor Care	GK-18	Fire panel room
ATS-CTEL			71589	Taylor Care	GK-18	Fire panel room
 MTS-1 (manual transfer do not test)			71950	Taylor Care	GK-18	Electrical distribution
 ATS -EHR1	<u> </u>	MFCH 1, 2	60499	МЕСН	4119	S PENTHOUSE
 ATS CONTROLLER FIRE PUMP	_		60419	MFCH	B007	Fire pump room
 ATS -EHR2	<u> </u>		60390	МЕСН	4103	N PENTHOUSE
 ATS -EHR3	_,		60345	МЕСН	4103	N PENTHOUSE
 ATS MCC-B-EQ-EM2	<u> </u>		60268	МЕСН	B011	Absorber room
 ATS MCC-B-EQ-EM1			60254	MFCH	B011	Absorber room
 ATS B-CR1			60252	MFCH	B011	Absorber room
 ATS B-CR2			60249	MFCH	B011	Absorber room
ATS CR-EQ-RB			60182	MFCH	4105	SWITCHGEAR
 ATS LS-R2			60177	MFCH	4105	SWITCHGEAR
A10 L0-R2			001//	MLCH	4103	SWITCHGEAK

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 ATS LS-R1	_		60175	MFCH	4105	SWITCHGEAR
 ATS CR-RB			60173	MFCH	4105	SWITCHGEAR
 ATS CR-RA			60172	MFCH	4105	SWITCHGEAR
 ATS CR-RC	_		60170	MFCH	4105	SWITCHGEAR
ATS CR-RC	-i		60170	MITCH	4103	SWITCHGEAR
 ATS -ELEV 2			60116	MFCH	B041	ELEV MER
 ATS-ELEV I			60111	MFCH	B041	ELEV MER
 ATS ACP-LS	АСР		71604	ACP	AB110	Emergency Electrical
ATO NOT ES	Her		71004	7101	ABITO	Emergency Electrical
 ATS ACP-CR1			71603	ACP	AB110	Emergency Electrical
 ATS ACP-CR2			71598	ACP	AB110	Emergency Electrical
 ATS ACP-EQ1			71601	ACP	AB110	Emergency Electrical
•						
 ATS ACP-EQ2			71600	ACP	AB110	Emergency Electrical
 ATS ACP-EQ3			71598	ACP	AB110	Emergency Electrical
 ATS ACP-XRAY			71602	ACP	AB110	Emergency Electrical
ATO ACI -ARAT	-{		/1002	ACI	ADITO	Emergency Electrical
 ATS ACP-ELEV			71597	ACP	AB110	Emergency Electrical

11. REPLACEMENT OR OTHER RENTALS

12. A. In the event a generator cannot be placed back into service within 4 hours, or the Medical Center requires an additional generator for construction or other purposes, the contractor shall be capable of providing suitable rental equipment.

13. CONTRACTOR QUALIFICATIONS

- a. The Contractors shall list the names of four (4) employees certified and/or authorized with at least five (5) years experience to service Equipment.
- b. The Contractor shall list the name, telephone number, and business person of four clients for whom they currently supply the same or similar service in accounts of equal size and complexity to the Corporation
- c. The Contractor shall maintain a principal Service Office within fifteen (25) miles of the Corporation for the term of the Agreement.
- d. The Contractor has provided the Equipment Services for the last five years