

_psi

resulting effect on generator voltage and frequency.

During this one-hour test run, record load variations in amperes and any

Startup and Onsite Test Procedure

This form is required for emergency power supply systems compatible with NFPA110 standard and prime power supply systems using 5 kW or larger generator sets and 30-4000 amp transfer switches.

Date: mo	day	yr	
Number			

		· ·	Ü	'					Number:	
		Di	istributor					U	Jser	
Distributor	Name			Warranty I.D. No.	Own	er's N	lame			
Address					Addr	ess				
City			State	ZIP/Postal Code/Country	City				State	ZIP/Postal Code/Country
Telephone					Telep	hone	;			
		Generato	r Set Informatio	n				Transfer Swi	tch Information	
Model		Generator	Engine Model		Mode	el		Transier Own	torr innormation	
Spec No.			Engine Serial No		Seria	al No				
орес но.			Lingine denai 140	•	John	ai 140.				
Serial No.					Optio	ons				
				Che	ecklist					
side of th cold start must be transfer s	e transfer swar condition ar at their norm at their norm switch mode so simulate a ne fuses supply record the form of the start of elements of the start of elements of the start of elements of the startup: Number startup: Number startup: Number startup: Number startup: Number startup: Number startup:	itch. Before be ad loads protect hal operating le selector should bormal powerfai ving normal po bllowing: of seconds elap ngine cranking of seconds ela arting: of seconds ela arting: of seconds ela arting: of hertz ab Hz of seconds for r load is transfi	eginning tests, the ted by the emerevel. The general both be in the A lure by opening a wer to the buildingsed between note that the properties of the prope	Il circuit breakers or remove ng or facility. Observe and rmal source interruption and tart of engine cranking and ngine starting and reaching er):		4.	After swin five lmm per use 100 Plathe about Records and the about	store normal power by close Record the time elapsed retransfer to normal power minimum). 1 2 Record the time elapsed generator set shutdown: er completing steps 1 thresten to the OFF/RESET pose eminutes. mediately after the five-reform a two-hour, full-load to a load bank of sufficient size a load bank of sufficient size the generator set master generator set reaches rate pove. cord the following as the blied:	between normal er for each transfer for each transfer for each transfer for each transfer for each retransfer for each transfer for each transfer for each transfer for each transfer for supplemental for each transfer for each tr	power restoration and fer switch (15 minutes 5
2.	Check and r Intervals (min.) 5 10 15 30 45	Oil	wing at the listed Water Temperature °F °F °F °F °F	Battery Charging Rate volts/amps volts/amps volts/amps volts/amps volts/amps volts/amps volts/amps			•	Number of seconds elaps and engine starting: Number of seconds elaps reaching rated speed (rate Number of volts above application: Number of hertz above startup: Hz Number of seconds for vistate after load application	osed between the ded Hz on frequency rated voltage (olts rated frequency oltage and frequency tage)	engine's starting and meter):overshoot) upon load cy (overshoot) upon

volts/amps

Intervals (min.)	Oil Pressure	Water Temperature	Battery Charging Rate
15	psi	°F	volts/amps
30	psi	°F	volts/amps
45	psi	°F	volts/amps
60	psi	°F	volts/amps
75	psi	°F	volts/amps
90	psi	°F	volts/amps
105	psi	°F	volts/amps
120	psi	°F	volts/amps

• Check and record the following at the listed intervals:

Transfer to normal power. Allow the generator set to shut down.
 Disconnect any load bank used in the two-hour test.

		Checklis	st, conti	nued					
	cranking and overcrank fa ueled generator sets, disc d ground it or disconnect	onnect the coil wire at the		10.	water temperati	ure lamp sh	ould light.		The controller love this field test was
On diesel-fueled g ECM on DDC eng	penerator sets: unplug the gines with DDEC/MDEC o pump solenoid all other m	fuel injector harness from or disconnect wire no. 70		11.	not feasible.			-	ult warning.* The
 Move the generate 15-second on-off time from start of 	or set master switch to the cranking cycles and maxi f cranking to overcrank	RUN position. Observe mum 75-second elapsed			controller anticipus This model in not feasible.	, ,			should light. e this field test was
overcrank lamp or • Move the generat	n the controller. or set master switch to th	ne OFF/RESET position.		12.	Verify the antici				g.* The controlle
	fueled generator sets, re the ignition system.	econnect the ignition coil			This model h	•	•	•	e this field test was
 On diesel-fueled g pump solenoid. 	generator sets, reconnect	wire no. 70 to the injector	П	13.	not feasible.	el fault warn	ing. The contro	oller low fu	el lamp should light
7. To test overspeed fau	ult shutdown protection:*		_		•		· ·		e controller batter
☐ This model has an that prevents man	ECM-controlled engine w	rith engine controller logic	_	• • •	charger fault lar			g	o commonor battory
Move the generate	or set master switch to R			15.	Verify the low loattery volts lar			warning.	The controller lov
		Observe generator set ontroller when frequency		16.	The not-in-auto switch is in the				nerator set maste
reset the controlle	or set master switch to the r overspeed fault. The NC				Press the LAMF				· ·
light. For the following tests in ste RUN for starting. Move the position to reset after each fau manuals to locate the circuit w	generator set master sw Ilt test. Refer to the wiring	ritch to the OFF/RESET		18.	disconnect wire emergency sto audiovisual alar should light. Mo	1 or 1A. To lamp on metallon(s) we the ALAF	he generator s the controller s), the alarm hor RM switch to the	sèt [°] should should lig n should s	nove the cover and shut down and the ht. At the remote sound and the lamp position to silence
Note: The engine safety sw	itches do not function du	ring the first 30 seconds			the alarm. The	•	•		
after startup.									y stop station(s). enerator set maste
 Verify the low oil pressure fault shutdown.* The 5 seconds and the controller low oil pressure 		amp should light.			switch to the OF	F/RESET p	position and the	en to the A	UTO position. The
This model has an not feasible.	n ECM-controlled engine	where this field test was				o out. Move the ALARM switch to its NORMAL position ilence the alarm.			
9. Verify the high engine stop after 5 seconds should light.	e temperature fault shutdo and the controller high o			19.		I functional	l in accordan	ce with t	eater are installed the generator se acceptance.
This model has an not feasible.	n ECM-controlled engine	where this field test was				utdoor hous			ator set equipmen than 4.5°C (40°F
Some models with electronic	c engine controls may lim	it or prohibit adjusting the	engine s	peed	d or testing engir	e faults. Re	efer to Service	Bulletin 6	26 for details.
Customer Representative Name		Firm				Date			
						- 1	mo. da	ıy	yr.

Customer Representative Name	Firm	Date			
		mo.	day	yr.	
Customer Representative Name	Firm	Date			
		mo.	day	yr.	
"Authority Having Jurisdiction" Signature	Office/Organization	Date			
		mo.	dav	vr.	

WHITE: Distributor YELLOW: Customer PINK: Authority Having Jurisdiction M-3322 5/06c