

PROGRAM MANAGER EXPEDITIONARY POWER SYSTEMS MARINE CORPS SYSTEMS COMMAND

AutoDISE

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Agenda

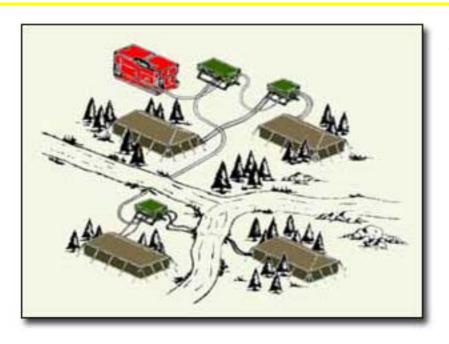
History

System Capabilities

USMC Version



AutoDISE History



AutoDISE is the current U.S. Army computer based electrical camp planning tool.

Information and downloads are available on the internet at http://www.autodise.net/

- Computer model developed to simulate the use of:
 - Distribution Illumination System, Electrical (DISE),
 - Power Distribution Illumination Systems, Electrical (PDISE).
- Designed for the use in Army systems
- Uses graphics interface.
- Standalone client application
- No formal install
- Run directly off of a CD



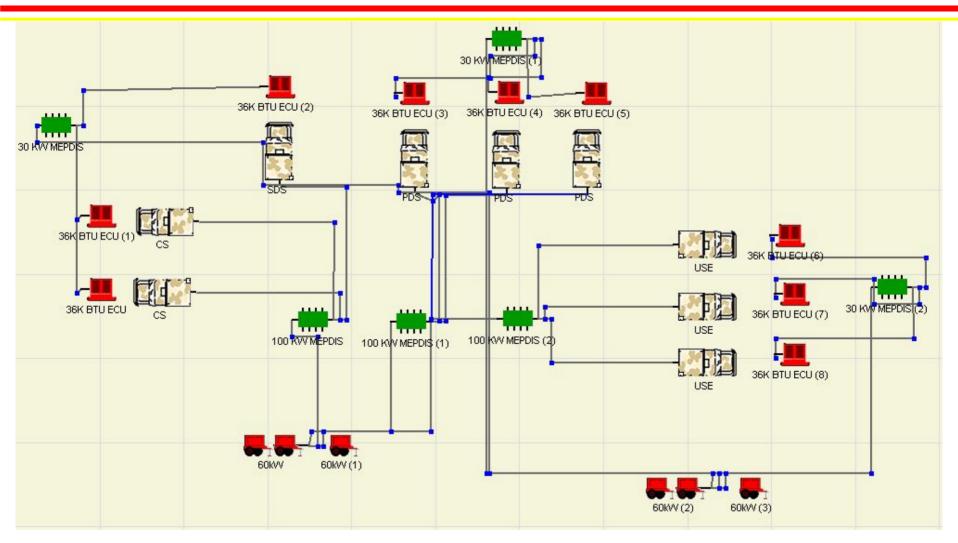
AutoDISE History

- AutoDISE is used to engineer Army DISE Layouts for systems that consist of:
 - Multiple shelters,
 - Electrical consumers, and
 - Electrical power generators.
- DISE (Army) and MEPDIS (USMC) consists of electrical cables, connectors, feeder centers, and distribution centers that are used to distribute electrical power to the equipment.
- A user of AutoDISE should refer to the operator and maintenance manual for MEPDIS
 - It is the authority over information presented in the user's guide and software.

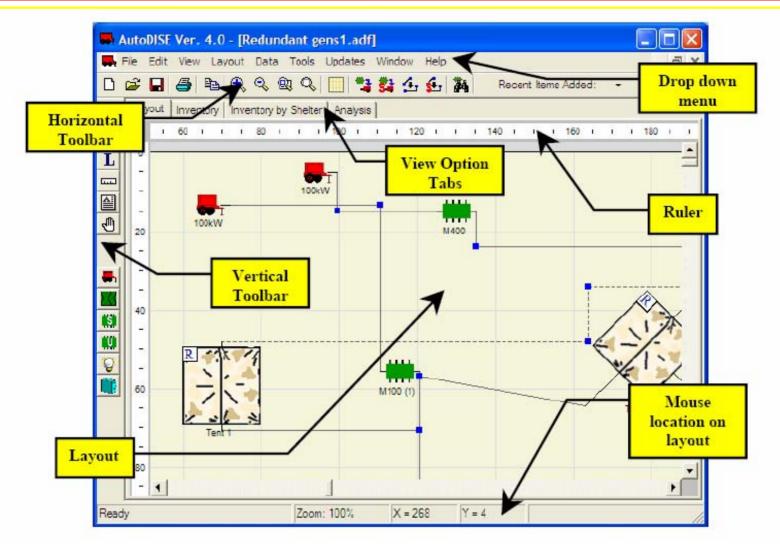


- Camp layouts to scale.
- Required equipment inventory.
- Phase balancing.
- Automatic connection of power distribution and power consuming items.
- Individual tent/shelter layouts.
- System analysis to include total kw, total loads, and available kW.
- User defined power distribution systems.
- User defined loads.









Windows based pull down menus with drag and drop capability.





Ability to view each generator set and connected devices with load and phase details.



em Detail Type: DISE	Power Connections					Pt	nase I	Loads	i
Name: M100 (1)	<u>Status</u>	Name	<u>I/O</u>	# Ø	Rating (A)	Α	В	C	Ø
icon:	In Use	J.1	input	3	100	25	30	30	
Changelcon	Open	J-2	output	3	100	0	0	0	
Comments:	Open	J-3	output	3	60	0	0	0	
Confinence.	In Use	J-4	output	3	40	5	10	10	
	In Use	J-5	output	3	40	5	10	10	
	In Use	J-6	output	3	60	15	10	10	
	Open	J-7	output	1	20	-	-	0	C
	Open	J_8	output	1	20	0	_	-	A

User can view each individual power distribution panel and all connected loads. The system allows views of available connection points. Also an automatic phase balancing feature will notify the user when phases are outside of user defined tolerances.



	ayout Inventory (Click on column headers to sort) Print Export												
Туре	Name	Mode	Quantity	In Shelter?	#Ø	AC/DC	Generato						
Generator	10kW	120/208V, 3Ø 4-wire	1	No	3	AC	10kW						
Breaker Panel	A BOX	-	1	Yes - ICU (1)	3	AC	Not connec						
Breaker Panel	A BOX	-	1	Yes - PLX	3	AC	Naticonnec						
Breaker Panel	A BOX		1	Yes - ICW	3	AC	Not connec						
Breaker Panel	A BOX	-	1	Yes - ICU	3	AC	Naticonnec						
Breaker Panel	A BOX	-	1	Yes - Radiology Tent	3	AC	Not connec						
Breaker Panel	A BOX	-	1	Yes - PRE-OP/CMS/POST-OP	3	AC	Natconnec						
Breaker Panel	A BOX		1	Yes - TOC	3	AC	Natconnec						
Breaker Panel	A BOX	-	1	Yes - ICU (2)	3	AC	Not connec						
Breaker Panel	A BOX	-	1	Yes - Sanitation Center	3	AC	Nat connec						
Breaker Panel	A BOX	-	1	Yes - TOC	3	AC	Naticonnec						
Breaker Panel	A BOX		1	Yes-Feeding Tent	3	AC	Not connec						
Breaker Panel	ABOX	-	1	Yes - Company HQ	3	AC	Not connect						

Ability to export inventories to Excel, MS Word, or Adobe PDF Files.



USMC Version

- USMC final version will include Army systems, plus:
 - Old USMC MEPDIS,
 - New USMC MEPDIS,
 - USMC Field Wiring Harness,
 - All standard cable sets
- Ability to recognize paralleled generator sets
 - Beyond the Army power plant model,
 - Including operating in parallel through the new MEPDIS.
- Warning when generator is running under wet stacking



USMC Version

- CD-ROM will be the delivery medium
 - To be run as stand alone application
 - Will not be NMCI supported
 - Data files will need to be stored to your computer
- Crib-sheet handout for quick reference
- PowerPoint training package
- Final version available now.



Fielding Issues

- CDs are available now.
- See your FSR for your copy and training.



IF NOTHING ELSE, REMEMBER THIS:

- AutoDISE does not take the place of formal school training.
- It is designed to be used by someone trained in electrical camp planning.



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Questions?



