

HP 3000 Series 64 / 68 Computer System

site planning workbook



Customer _____

Location _____

Order Number _____

HP Field Engineer _____

HP Customer Engineer _____



19447 PRUNERIDGE AVE., CUPERTINO, CALIFORNIA 95014

POWER REQUIREMENTS TABLE

Customer _____
 Location _____
 Order Number _____

Field Engineer _____
 HP Customer Engineer _____

MODEL NUMBER	QTY.	MARKED ELECTRICAL RATING (AMPERES)	SURGE CURRENT	TOTAL MARKED ELECTRICAL RATING (AMPERES)	COMMENTS
Total Current Requirements					

HP Computer Museum
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For research and education purposes only.

PLANNING CHECKLIST FOR THE SITE COORDINATOR

Customer _____ Field Engineer _____
 Location _____ HP Customer Engineer _____
 Order Number _____

Complete all items. If any item does not apply to your site, enter N/A. Answer all other items YES or NO (a check mark implies YES). For all items answered NO, explain the response in the Comments section at the end of this form.		
ITEM	QUESTION	RESPONSE
1	Is site large enough to contain equipment?	_____
2	Are elevators large enough to contain the equipment?	_____
3	Will stairways allow passage of equipment?	_____
4	Will doorways en route to the site allow clearance for equipment?	_____
5	Will hallways and corridors en route to site allow clearance of equipment?	_____
6	Are elevators adequate to support weight of equipment?	_____
7	Is site flooring strong enough to support weight of equipment?	_____
8	Will flooring en route to the site support weight of equipment?	_____
9	Has grid layout been completed, showing locations for all proposed equipment?	_____
10	Does floor plan allow for about 36 inches (92 cm) clearance at front and rear of equipment?	_____
11	Does floor plan allow for future expansion?	_____
12	Does floor plan show location of power distribution panel?	_____
13	Does floor plan show location of proposed air conditioning system?	_____
14	Does floor plan provide enough space for cabinets and files?	_____
15	Does floor plan show locations of all doors and windows?	_____
16	Is enough space provided for personnel safety, comfort, and freedom of movement?	_____
17	Has the need for emergency exits been considered?	_____
18	Is site not in or adjacent to any hazardous area?	_____
19	Has site been checked for existence of unique internal or external conditions such as excessive dust, high humidity, vibrations, magnetic or electrical fields, and insects?	_____
20	Has the vicinity around the building been observed for the existence of transmitting antennas (i.e., FM or TV stations, or Radar sites)?	_____
21	What type of terminal or data communication equipment is proposed? (Check one.)	_____
	● Hardwired input?	_____
	● Data set?	_____
	● Leased line?	_____



ITEM	QUESTION	RESPONSE
22	State type of modem planned.	_____
23	Has telephone company been notified about required console/ cabinet phone and data sets?	_____
24	Have local codes and restrictions been researched to ensure they permit the proposed site?	_____
25	Has the Construction Specialist completed his planning checklist?	_____
26	Has the Air Conditioning Specialist completed his planning checklist?	_____
27	Has the Electrical Specialist completed his planning checklist?	_____
COMMENTS		



ELECTRICAL PLANNING CHECKLIST

Customer _____ Field Engineer _____
 Location _____ HP Customer Engineer _____
 Order Number _____

Complete all items. If any item does not apply to your site, enter N/A. Answer all other items YES or NO (a check mark implies YES). For all items answered NO, explain the response in the Comments section at the end of this form.		
ITEM	QUESTION	RESPONSE
1	Is proper and adequate power available to site?	_____
2	What type of power is available at the main service entrance to the building? (State type.)	_____
3	Will the power panels be mounted in an accessible area and will they be fed directly from the building power distribution panel?	_____
4	Is dedicated ground installed?	_____
5	Is safety ground installed?	_____
6	What is the phase-to-neutral voltage measured at the computer panel? (Check one.) <ul style="list-style-type: none"> ● Phase A ● Phase B ● Phase C 	_____ _____ _____
7	What is the phase-to-phase voltage measured at the mainframe power panel?	_____
8	Have tests been conducted to determine the voltage fluctuations throughout the day?	_____
9	If tests indicate excessive fluctuations, have provisions been made for voltage regulation?	_____
10	Have you checked whether other companies in your area whose power is also supplied by feeders from a utility-owned transformer operate noise producing equipment?	_____
11	Have provisions been made to protect the system against power surges?	_____
12	Isolated ground receptacles installed?	_____
13	Have you provided for the installation of sufficient receptacles throughout the site for free-standing equipment?	_____
14	Have you provided for the installation of sufficient convenience outlets throughout the site?	_____
15	Will the convenience outlets be supplied by other than the computer system panel?	_____
16	Is the site wired so that the air conditioning system will be interrupted when an emergency pushbutton is activated?	_____
17	Will the air conditioning system be powered by other than the computer system panel?	_____
18	Has emergency backup power been considered?	_____
19	Have you provided for installation of one or more emergency-off pushbuttons that will trip the building power distribution circuit breaker when activated?	_____
20	Will each of the circuits installed in the panel be appropriately rated for compliance with local codes?	_____

SITE VERIFICATION CHECKLIST

Customer _____ Field Engineer _____
 Location _____ HP Customer Engineer _____
 Order Number _____

PHYSICAL SITE CONSIDERATIONS	HP SPEC
1. Is site construction complete? _____	
2. Have provisions been made for datacommunications equipment? _____ _____	
3. What type of floors are installed? _____ a. What type of floor covering? _____	
4. Has dust-producing equipment been relocated? _____	
5. Does fire safety equipment meet local regulations? (Attached copy of fire inspection report) _____	
6. Is acoustical design sufficient to reduce overall system noise? _____	
7. Are the areas at the rear of cabinets adequately lighted? _____ _____	
8. If raised floor is used, is each panel electrically connected to ensure that all panels are at the same ground potential as that for the equipment? _____ _____	
9. How often is the computer room to be cleaned? _____	

ENVIRONMENTAL CONSIDERATIONS	HP SPEC
<p>1. Air Conditioning</p> <p>a. Has the air conditioning planning checklist been completed? _____</p> <p>b. Does the air conditioning system have the capabilities to maintain humidity and temperature within specified recommended ranges? _____</p> <p>c. Has a temperature and humidity recorder been installed?</p> <p>(1) Type? _____</p> <p>(2) Where located in computer room? _____</p> <p>(3) Where are recordings stored? _____</p> <p>(4) Is each periodic recording compared with previous one? _____</p> <p>_____</p> <p>(5) If comparisons differ greatly, what action is taken? _____</p> <p>_____</p> <p>d. After system is installed, does temperature and humidity remain within specified optimal values? _____</p> <p>e. Has emergency shutdown equipment been installed for both the computer and the air conditioning systems? _____</p> <p>2. Contaminants</p> <p>a. What type of business is equipment to be installed? _____ (Examples: paper mill, steel mill, chemical company, etc.)</p> <p>b. Has a consultant been retained by the customer to analyze the environment? _____ (HP may reserve the right to call in consultant if environment is suspected to have excessive contaminants.)</p> <p>c. What are their findings? (attach copy of report) _____</p> <p>_____</p> <p>d. If contaminants are present, what are they and what levels of concentration? _____</p> <p>_____</p> <p>_____</p> <p>e. If problem existed, has it been resolved through the use of proper filtering techniques? _____</p> <p>f. If consultant was engaged for installation of protective filtering, attach copy of their warranty or protection assurance.</p> <p>g. What is the frequency of maintenance of filter system? _____</p> <p>_____</p> <p>h. Who is to perform this maintenance? _____</p>	

ELECTROMAGNETIC COMPATIBILITY	HP SPEC
<p>1. Electrostatic Discharge</p> <p>a. What precautions been taken to minimize static buildup, as given in the Site Planning and Preparation Guide? _____ _____</p> <p>(1) Avoid carpeting _____</p> <p>(2) Use antistatic mats for terminals? _____</p> <p>2. Radiated Interference (RFI)</p> <p>a. Are there radio, radar, or other transmitting stations nearby? _____ _____</p> <p>b. If so, what precautions have been taken to prevent interference by them? _____ _____ _____</p> <p>3. Magnetic Field Interference</p> <p>a. Have potential sources been identified? _____ _____</p> <p>b. What corrective actions have been taken? _____ _____</p> <p>4. Lightning Protection</p> <p>a. Does building meet NFPA 78 recommendations (regardless of local codes)? _____</p> <p>b. Are signal and power cables properly routed to avoid exposure? _____</p> <p>5. Power Line Transients</p> <p>a. Has primary power been monitored? _____</p> <p>b. Under what conditions? _____</p> <p>(1) Under load? _____</p> <p>(2) No load? _____</p> <p>c. How long has power monitored? _____</p> <p>d. List the test equipment settings during monitoring period. _____ _____ _____</p> <p>e. Attach copy of corroborative data with explanations of readings.</p> <p>f. What corrective action has been taken if power is observed to experience sags, surges, and transients? _____ _____</p>	

