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Book 1

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Book 1

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Book 1 **Electrical Power**

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**Electrical Distribution Systems Energy and**

**Power Generation Handbook SECTION – I**

**CONTROL AND PROTECTIONS Power**

**Plants: Characteristics and Costs Power Plant**

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maintenance optimization for excitation  
system ... Operation and maintenance schedule  
of a steam turbine ... Steam Power Plants  
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**Nathan Charles, Enphase Energy . Daisy  
Chung, Solar Electric Power Assoc. (SEPA)**

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Joe Cunningham, Centrosolar . Jessie Deot,  
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and Training 75  
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Modern power plants have an extensive electrical distribution system to provide



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reliable power to all of the support  
equipment in the power plant. The utility  
operating the power plant is in the business  
of generating electrical power twenty four

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hours a day, seven days a week. Since  
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electrical power ...

tion energy system design, industrial power

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systems, grounding issues, transformers,  
and the analysis of power quality problems.

dr. baldwin also holds the rank of professor  
at the fAMU-fSU College of Engineering at

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florida State University, tallahassee, fl, and

has conducted research at the Center for

Advanced Power Systems since 1999. he is

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a...  
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1.3.3 Generator and Excitation System  
Generators are discussed in volume -1.

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Main controllers are excitation systems.

Control and data signals required are typically given in table 2.1 and generator specification (Vol. I) for proper operation

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and monitoring. 1.3.4 Step up Transformers  
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These are discussed in Chapter-6.

The United States may have to build many

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new power plants to meet growing demand for electric power. For example, the Energy Information Administration (EIA) estimates that the nation will have to construct



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226,000 megawatts of new electric power generating capacity by 2030. 1 This is the equivalent of about 450 large power plants.

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Modern power plants have an extensive electrical distribution system to provide reliable power to all of the support equipment in the power plant. The utility

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operating the power plant is in the business  
of generating electrical power twenty four  
hours a day, seven days a week. Since

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electrical power ...  
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The main factor of uoh is mostly caused by excitation system of power plant. Therefore,

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the maintenance system of excitation

system has to be revised in order to improve  
of reliability of power plant.

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3.7 Maintenance of steam power plant

accessories ... hence electrical energy in

power plants and certain types of engines.

While steam turbines might be ... in order to

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improve the power supply system in the  
country. 1.1 The major components of a  
steam power plant " "

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Supplying power plants matching

customers' needs As an EPC contractor,

Mitsubishi Power will design, manufacture,  
deliver, and install entire power plants.



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From main plant equipment to auxiliary air  
quality control systems, Mitsubishi Power  
can integrate the complete plant system to

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optimize equipment design and efficiency.  
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maintenance than last year (45% versus  
55% in the 2018 report). Q: What

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technologies are used to monitor or manage

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maintenance within your plant? Check all

that apply. (n=198) 58% 45% 39% 34%

23% 11% 7% 3% Computerized

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maintenance management system (CMMS)  
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In-house created spreadsheets and  
schedules (e.g., Microsoft Excel)

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such as steam power units, gas-fired  
combined-cycle power plants and waste  
incineration plants in terms of integrating  
both process and electrical control into one



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consistent system. Depending on the  
specific plant type some other components,  
such as a static starter ...

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**The excitation system is the single unit in which the each alternator has its exciter in the form of generator. The centralised excitation system has two or more exciter**

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which feeds the bus-bar. The centralised system is very cheap, but the fault in the system adversely affects the alternators in

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the power plant.  
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They need to be maintained, and it takes  
special skills to keep these important plants

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safely running. The Edison Electric Institute

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makes the Power Plant Maintenance

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employees seeking positions in electric  
utility power generation maintenance.

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provides a comprehensive understanding of  
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cogeneration and combined cycle plants.

Components such as compressors, gas and  
steam turbines, steam generators for heat

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recovery, condensers, lubrication systems,  
transformers, and generators are covered in  
detail.



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1.3.3 Generator and Excitation System

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These are discussed in Chapter-6.  
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electrical systems. Nothing can replace a  
worker or loved one that has died or

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suffered the irreparable consequences of an electrical accident. No matter how much an employer tries to safeguard its workers or how much safety training is provided; the

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ultimate responsibility lies with the worker.

The human factor is part of every accident  
or injury.

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maintenance than last year (45% versus 55% in the 2018 report). Q: What technologies are used to monitor or manage maintenance within your plant? Check all

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schedules (e.g., Microsoft Excel)  
Clipboards and paper ...

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both process and electrical control into one consistent system. Depending on the specific plant type some other components,

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such as a static starter ...  
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tool which is suitable for all those who are

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They need to be maintained, and it takes

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special skills to keep these important plants  
safely running. The Edison Electric Institute  
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