

Maintenance Control Program

by John Koshok

This article has been adapted from *Maintenance on New Equipment Designs – Application of the Maintenance Control Plan to Machine-Room-Less Elevators*, a new book from John Koshok available in May 2010 from ELEVATOR WORLD.

Learning Objectives

After reading this article, you should have learned about:

- Maintenance control programs (MCPs) and what they entail
- The importance of scheduled interval maintenance
- How interval maintenance should be scheduled
- What check charts are and what they do
- Applicable components and where a list of them can be found
- What maintenance records include and where they should be located
- Code data plates
- Jumper control programs
- Critical operating circuits
- The importance of cleaning and housekeeping in the field

A section in the code for maintenance has existed since the first code was published¹ in 1921. With years of experience, expanding this section had to consider customary maintenance methods, new maintenance methods and the changing technology of equipment. One difficulty was determining how many requirements were enough and how to provide requirements for documentation that maximized the safety of elevator personnel and users. The code is an evolving document and still contains some inconsistencies, which over time will be interpreted and changed. However, it will ensure a minimum level of safety when the conveyance conforms to it.

As maintenance items became more numerous in the code, they converged into a maintenance program. The present language specifies an MCP and is performance and prescriptive based. Since it is in the code and required for existing conveyances², when a jurisdiction adopts the ASME A17.1b-2003 addenda and later codes, the MCP is required and must be in place for each conveyance. This is the framework all elevator personnel

should use when performing maintenance, inspections, tests, repairs, replacements and adjustments. Below are the specific requirements with some explanation.

A17.1a-2008

8.6.1.2.1 A written Maintenance Control Program shall be in place to maintain the equipment in compliance with the requirements of 8.6.

"In place" does not require that the entire MCP be on the job. Currently there are differing interpretations within the industry of what this requirement mandates; this book [Maintenance on New Equipment Designs, ©2010] will serve as a starting point upon which to build.

The entire program consists of subcomponents 8.6.1.2.1(a)(1) through 8.6.1.2.1(a)(4), as elaborated below:

8.6.1.2.1(a) The Maintenance Control Program shall consist of but not be limited to:

(1) examinations, maintenance, and tests of equipment at scheduled intervals in order to ensure that the installation conforms to the requirements of 8.6. The maintenance procedures and intervals shall be based on:

Continued



**Value: 2 contact hours
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Elevator Maintenance Control Program

Lei Huang



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Maintenance Management, Class A Offices United States Postal Service,1978 *Treasury, Postal Service, and General Government Appropriations for Fiscal Year 1984: United States Postal Service* United States. Congress. House. Committee on Appropriations. Subcommittee on the Treasury, Postal Service, and General Government Appropriations,1983
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Committee on Appropriations,1979 Manual on Business Opportunities for Small and Minority Businessmen Nonprofit
Housing Center,1976 **Prevention of Dust Explosions in Grain Elevators** United States. Department of Agriculture.
Office of the Special Coordinator for Grain Elevator Safety and Security,1980 *COMMITTEE ON APPROPRIATIONS*
HOUSE OF REPRESENTATIVES ,1983

Unveiling the Magic of Words: A Review of "**Elevator Maintenance Control Program**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Elevator Maintenance Control Program**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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web degree of reaction zero reaction stage let us first discuss the special case of zero reaction according to the definition of reaction when $\Lambda = 0$ equation upper reveals that $h_1 = h_2$ and equation lower that $\beta_1 = \beta_2$ fifty percent reaction stage β_2 and the velocity diagram is symmetrical because of symmetrical symmetry it is also

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moving blades in this case stationary blades act as nozzle for the next

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web the reaction turbine diagram is shown below reaction turbine in this type of turbine when the water enters the turbine's wheel with some pressure supplies above the vanes then turbine's wheel moves completely may be submerged under the tailrace or may discharge into the atmosphere

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web the 50 reaction turbine has been used widely and has special significance the velocity diagram of a 50 reaction is symmetrical and for the maximum utilization factor the exit velocity v_2 must be axial figure 2 40 shows a velocity diagram of a 50 reaction turbine and the effect on the utilization factor

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web $p_1 v_1 u_1 v_2$ $z_1 q p_2 v_2 u_2 v_2$ $z_2 w p_1 v_1 u_1 h_1$ enthalpy of steam at inlet $p_2 v_2 u_2 h_2$ enthalpy of steam at exit $h_1 v_2$ $z_1 q h_2 v_2$ $z_2 w$ generally changes in potential energy are negligible $z_1 z_2$ if no heat is supplied from the surroundings then $q = 0$

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web velocity diagram fig 7 velocity diagram of pressure compounded reaction turbine the velocity diagram given in figure 7 gives a detail about the various components of steam velocity and blade velocity symbols have the same meaning as above see also pressure compounding in turbines references

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web the above figure shows the velocity and pressure curve while working fluid passing through the blades of velocity compounded turbine here the kinetic energy velocity is extracted from working in multiple stages this is known as velocity compounding figure show the arrangement of a velocity compound turbine

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