Goal programming approach to maintenance scheduling of generating units in large scale power systems

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Abstract-

This paper presents a goal programming methodology for solving maintenance scheduling of thermal generating units under economic and reliability criteria. The advantages of a multicriteria approach are demonstrated by comparing the effects that costs and reliability have on each other in power plants maintenance scheduling. The problem is formulated as a large scale mixed integer programming problem implemented in the mathematical programming language GAMS and solved using OSL. Weekly maintenance scheduling of the large scale Spanish power system for a year period illustrates the proposed methodology

Index Terms- integer programming maintenance engineering power generation planning scheduling thermal power stations

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Citation:

Muñoz-Moro, L.; Ramos, A. "Goal programming approach to maintenance scheduling of generating units in large scale power systems", IEEE Transactions on Power Systems, vol.14, no.3, pp.1021-1027, August, 1999.