

N107. Field Demonstration Of NOREM Wear-Resistant Alloys

Nondestructive examinations of the valve trim confirm the outstanding performance of the new alloys. Weld deposition procedures also have been developed for the wire products. Three hardfacing manufacturers have nonexclusive licenses from EPRI to manufacture and market the alloys, named NOREM. A field demonstration of these alloys at one or more EPRI-member utilities is needed.

Use of these alloys will reduce utility O&M costs. The weld consumables are lower in cost than traditional hardfacing alloys and typically can be deposited with little or no preheating, with performance matching or exceeding that of the traditional alloys. Use of these alloys in the primary system of nuclear power plants will reduce occupational radiation exposure because the alloys do not contain cobalt.

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