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Mn-Ni-Mo SQV 2B

Mechanical Properties of High-Strength Mn-Ni-Mo Steel for Nuclear Power Plant

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:

1150 MW (PWR)

SQV 2B(TS(63 kgf/mm2) 100 mm

P S AS Sb

SAW MIG

RTNDT 45

HAZ

501 (55) KIR

Synopsis:

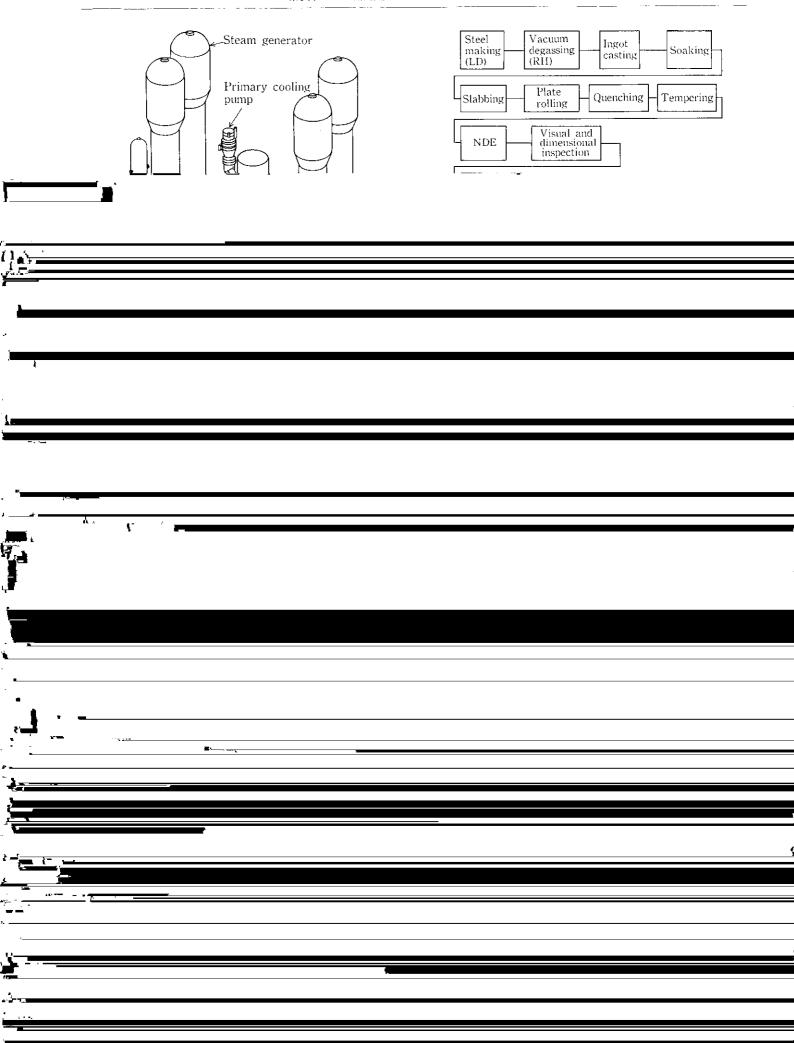
High strength JIS SQV 2B 100 mm thick plate for the steam generator of a 1150 MW class pressurized water reactor type plant is manufactured and its characteristics are examined. Because of the reduction of impurities such as P, S, As and Sb in steel, the segregation of the elements and variations of mechanical properties in the whole plate are minimized. The yield and tensile strengths at ambient and high temperatures and impact properties of base material and welded joints by SAW and MIG fulfill the specifications. Furthermore those RTNDT's are lower than -45 . The static and dynamic fracture toughness and the crack arrest fracture toughness are higher than those of KIR curve specified by MITI No.501. From these results, it is concluded that this material has sufficient safety for this purpose.

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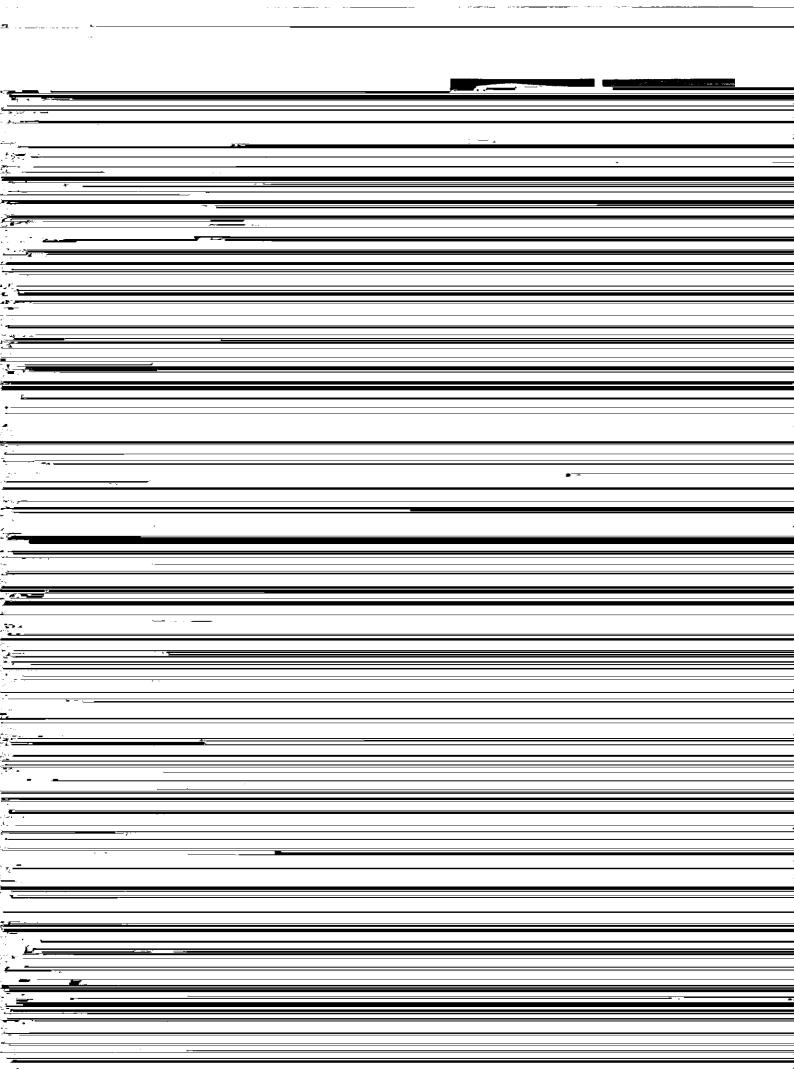
原子力プラント用高強度 Mn-Ni-Mo 鋼 SQV 2B の材質特性^{*}

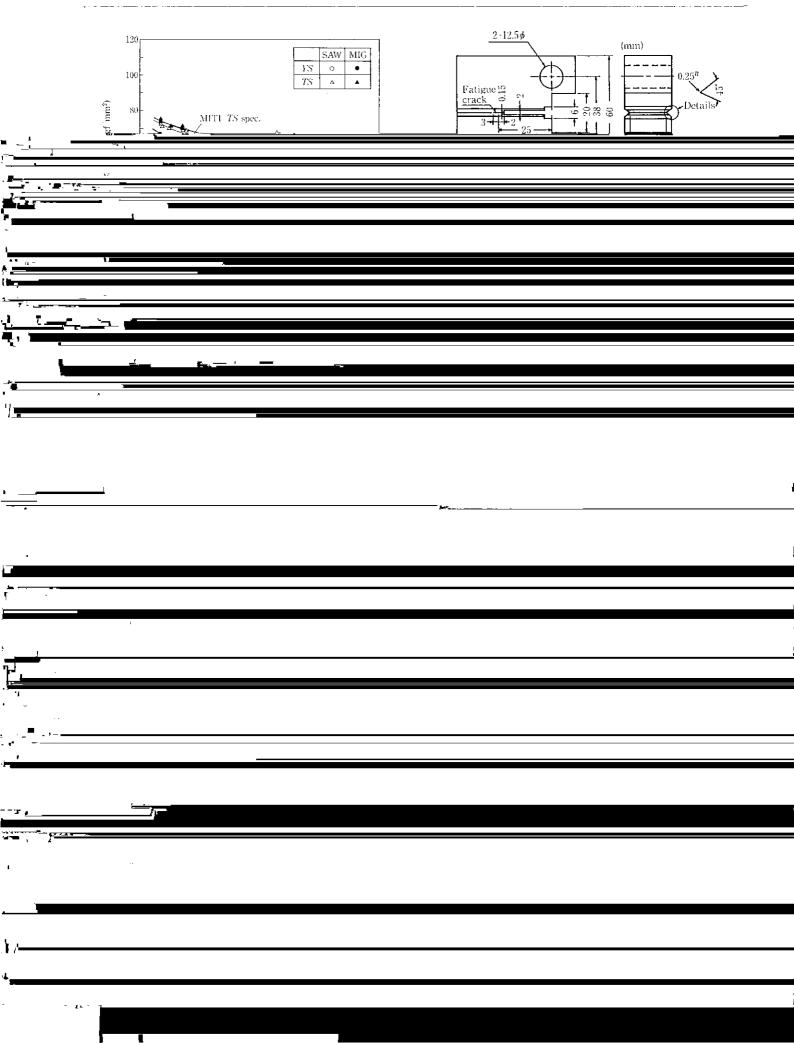
Mechanical Properties of High-Strength Mn-Ni-Mo Steel for Nuclear Power Plant

要旨1 150 MW 級の加圧水型 (PWR) 原子力発電プラントの蒸気発生器用鋼板を想定して,高強度鋼板である SQV 2B (*TS*≥63 kgf/mm²)の短原 100 mm 御塩を創生し この結果を削べた 始は P S A。



						
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