

rx l ankr enq rsddk oqnc tbsr v hsg dwbdkkdms e`shf td bq`bj

`ahkhsx dpt`k sn sg`s ne sgd bnmudmshnm`k rsddk-

2.2.3

qd`bg `m`udq`fd ne qntfgkx 0/7 bxbkdr hm 1/ xd`qr ne rgho rdquhbd+ sgdrd `qd bnmrhdqdc ` l`hm e`bsnq vhsq ` onrrhahkhsx ne b`trhmf rdqhntr `bbhdmsr hm gttk rsqtbstq`k bnlonmdmsr- S`jhmf sgd rhmfkd gttk rsqtbstqd rgnvm hm **Fig. 6** `r`m dw`l okd+ ©Fthcdkhmdr enq S`mjdq Rsqtbstqdr 1//0+, otakhrqdc ax sgd Mhoonm J`hih Jxnj`h^{4c} khrrs sgd hmsdqrdbshnm adsvddm udqshb`k `mc gnqhyms`k ldl adqr `rhcd knmfk+ sq`mr qhmf(`mc sgd dmc r ne rhcd rsqtsr `r sgd b`sdfnqx ne e`shftd ldl adqr.o`qsr- Hm 088/r+ `kns ne e`shftd c`l`fd nbbtqqdc `s sgdrd o`qsr hm rhmfkd,gttk udqx k`qfd bqtcd b`qqhdq 'UKBB^(5c) Eqn l ` rsqtbstq`k uhdvonhms+ hs hr bnmrhdq`akd sg`s sgdrd sxodr ne c`l`fd l`x `krn nbbtqqdc hm cntakd,gtkkdc UKBB- Lnqdnudq- sgd `qd` `qntmc rkns nodmhmfr hm cntakd,anssl `nnq ok`sdr hr `o`qs vgdqd `ssdmshnm g`r addm fhudm sn sgd nbbtqqdmbd ne e`shftd bq`bjhmf eqn l sgd a`rd lds`k- Rsddk ok`sdr vhsq sghbjmdrrdr ne 04°14 l l `qd l`hm kx trdc hm sgdrd rsqtbstq`k o`qsr-

3.2 Study of Manufacturing Guidelines for High Fatigue Property Steel Plates

3.2.1 Fatigue crack propagation performance of conventional steels for shipbuilding

Hm sgd cdudkno ldms ne ghfg e`shftd oqnodqsx rsddk ok`sdr vghbg bnmsqatsd sn hloqnu ldms hm sgd r`edsx l`qfhm enq e`shftd c`l`fd+ `rstcx v`r bnmctbsdc nm sgd e`shftd bq`bj oqno`f`shnm odqenq l`mbd ne X021 `mc 25 jfe. l l l rsddk ok`sdr enq rghoa thkchmf vghbg `qd c`hxx, oqncbtbc- @r `qdrtk+ hs v`r bnm@q l dc sg`s sgd e`shftd bq`bj fqnvsg q`sdr ne sgdrd rsddk ok`sdr dwrs nudq` vhdq q`mfd+ `r rgnvm hm **Fig. 7**+ hm vghbg sgd toodq kh l hs ne sgd bq`bj fqnvsg q`sdr `ooqnw l `sdx cntakd sg`s ne sgd knvdq kh l hs `s sg`s- Etqsgdq l nqd+ hs v`r `krn entmc sg`s

s n Â kx,

` a`qqhdq enq bq`bj oqno`f`shnm+ hr hmbqd`rdc ax qd@mhmf sgd fq`hm rhyd trhmf sgd *Super,NK@B+* vghbg g`r` ghfg bnnkchmf q`s- Sgd rdbnmc hr ghfg `bbtq`bx bnmsqnk ne l hbqnrstbstqd sn rdbtqd sgd nosh l t l l hbqnrstbstqd-

Hm `cchshnm sn sgdrd onhmsr+ sgd rsqdmfsg ne sgd a`rd l`sdqh`k hr `krn hmbqd`rdc ax qd@mdlms ne sgd lhbqn, rsqtbstqd+ h l oqnuhmf ansg e`shftd bq`bj oqno`f`shnm oqnodqshdr `mc e`shftd rsqdmfsg-

3.3 Performance of High Fatigue Property Steel Plate

A`rdc nm sgd oqnetbs cdrhfm bnmbdos cdrbqhadc `anud+ rsddk ok`sdr vhsq ghfg e`shftd bq`bj oqno`f`shnm odqenq l`mbd vdqd l`mte`bstqdc nm oqnetbshnm khmd vhsq sgd nosh l hyd qnkkhmf `mc bnnkchmf bnmchshnmr- @rdqhdr ne a`rhh l dbg`mhk`k oqnodqshdr `mc e`shftd oqno, dqshdr 'e`shftd bq`bj oqno`f`shnm oqnodqshdr `mc e`shftd rsqdmfsg(ne sgd rsddk ok`sdr `mc vdkcdc inhmsr vdqd hmudrshf` sdc- Sxohb`k sdrs qdrtkr `qd cdrbqhadc adknv-

3.3.1 Basic performance

Table 3 rgnvr sgd bgd lhb`k bn l onrshnm ne X025 jfe. l l¹ fq`cd D bk`rr rsddk- Sgd bgd lhb`k bn l, onrshnm hr sgd r`ld `r sgd bnmudmshnm`k rsddk ok`sdr ne sgd r`ld bk`rr- **Table 4** rgnvr `m dw`l okd ne sdmrhkd+ admchmf+ `mc Bg`qox h l o`bs sdrs qdrtkr- @kk sdrs qdrtkr rgnv dwbdkdm odqenq l`mbd+ r`shrexhmf sgd rs`mc`qc u`k, tdr- Vdkcdc inhms odqenq l`mbd v`r du`kt` sdc ax Bg`qox

- 2(Rgho Qdrd`qbg O`mdk mn- 134 @@ Rstcx nm sgd E`shftd Khed ne Cntakd Gtck S`mj dq Rsqtbstqd-, Rgho Qdrd`qbg Rt l l`qx Qdonqs- IRQ@- mn- 325+ 1//2-
- 3(X`l`l nsn+ M- Sdwsannj ne 1//0 Jntynt Rx l onrht l- 1//0,01,03+ RM@I- 1//0+ o- 2°04- 'I`o`mdrd(
- 4(Mhoonm J`hih Jxnj`h- Fthcdkhdr enq S`mj dq Rsqtbstqdr- 1//0-

- 5(@Fthcdkhdr enq s`mj dq rsqtbstqdr-, Sq`mr ne Mhoonm J`hih jxn, j`h- mn- 134+ 0887-
- 6(X`l`l nsn+ R-: Lnqjh`v`+ L- Bnme- Oqnb- sgd R ne M`u`k @qbghsdbsr ne Iom- mn- 1+ 1//2-
- 7(O`qhr+ O: Dqcnf`m+ E- Sq`mr- ne sgd @ l dqhb`m Rnb- ne Ldbg`mh, b`k Dmfhmddqr- 0852,01+ o- 417°423-