



Certificate No. NKM-826CF

***APPROVAL OF MANUFACTURING PROCESS***

*This is to certify that*

**Ellwood National Crankshaft  
Irvine, Pennsylvania  
U. S. A.**

*has been approved for the manufacturing process of undermentioned materials by the NIPPON KAIJI KYOKAI in accordance with the requirements of 1.2 Part K of the Society's "Rules for the Survey and Construction of Steel Ships" and Chapter 3, Part 1 of the Society's "Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use".*

**MATERIALS** : Carbon Steels  
Low Alloy Steels



**PROCESS** : Forging

**REMARKS** : Including Solid crank shafts by Die Forging specified in 6.1.13-2, Part K of the Rules.

On this effect, the products for the ships classed with the Society are to be manufactured, tested and inspected in compliance with the Rules

This certificate is valid until the 23rd day of December, 2013.  
Issued at Tokyo on the 24th day of December, 2008.

Initial Approval Date : 24th December, 2008

H. Takano  
General Manager  
Material and Equipment Department