



NIPPON KAIJI KYOKAI

Approval No. NKY-3373
Certificate No. TA171023E

Certificate

OF TYPE APPROVAL FOR WELDING CONSUMABLE

Brand: US-80LT / PF-H80AS
[Wire / Flux]

Applicant: Kobe Steel, Ltd., Fukuchiyama Plant
Fukuchiyama, Kyoto, Japan

Manufacturer: Kobe Steel, Ltd., Fukuchiyama Plant
Fukuchiyama, Kyoto, Japan

Grade: KAW4Y69MH5

Welding Process: Submerged Arc Welding

Welding Positions and Max. Diameter of Wire: See Table 1

Current: DCEP

Shielding Gas: Not Applicable

Applicable Parent Material: High Strength Rolled Steels for Offshore Structures

Table 1 Welding Positions and Max. Diameter of Wire

Butt Weld		Fillet Weld	
Flat:	4.8mm	Flat:	Not Applicable
Horizontal:	Not Applicable	Horizontal Vertical:	Not Applicable
Overhead:	Not Applicable	Horizontal:	Not Applicable
Vertical Upward:	Not Applicable	Horizontal Overhead:	Not Applicable
Vertical Downward:	Not Applicable	Overhead:	Not Applicable
		Vertical Upward:	Not Applicable
		Vertical Downward:	Not Applicable

THIS IS TO CERTIFY that the above mentioned welding consumable has been approved by the NIPPON KAIJI KYOKAI in accordance with the requirements of the Society's Rules.

This Certificate will remain in force until 8 August 2018.

Issued at Tokyo on 9 August 2017.



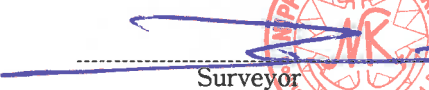
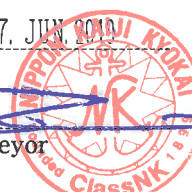
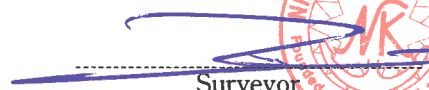
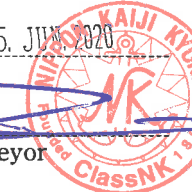


H. Kobayashi

H. Kobayashi
General Manager

Material and Equipment Department



Note : The validity of this certificate may be renewed by endorsement on the attached sheet upon completion of the annual inspections.

<p>The validity of this certificate has been renewed until <u>8. AUG. 2019</u> .</p> <p>Date: <u>1. JUN. 2018</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>8. AUG. 2020</u> .</p> <p>Date: <u>27. JUN. 2019</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>8. AUG. 2021</u> .</p> <p>Date: <u>5. JUN. 2020</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>8. AUG. 2022</u> .</p> <p>Date: <u>4. JUN. 2021</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>