



Request for Approval of Material

Contract	8078	FA Number		SR	I-5	Date	1/25/11
Section	I-5 COLUMBIA RIVER BRIDGE (WA 0.3 to OR MP308.0)			County	WA AND OR states		
Contractor	American Construction Company, Inc.		Subcontractor	P.N. Best AND Company, Inc.			

This form shall be completed prior to submittal. If this form is not complete at time of submittal it may be returned for information that was omitted.
For assistance in completing, see Instructions and Example

For WSDOT Use Only
RAM # 1

Bid Item No.	Material or Product/Type	Name and Location of Fabricator, Manufacturer or Pit Number	Specification Reference	PE/QPL Code	Hdqr./QPL Code
4.01	FURNISHING & DRIVING steel TEST PILES	NP 2/2/2011 P.N. Best AND Company, Inc. 6541 Redmond Way #262 C Redmond, WA 98052 http://pnbestco.com NP 2/3/11 Farwest Fabrication Jiangsu Yulong Steel Pipe Co. LTD	SPECIAL PROVISIONS PP-100	7	

Project Engineer	<i>for</i> Lucky Peppers / Frank Green	Date	1/26/11	State Materials Engineer		Date	
------------------	---	------	---------	--------------------------	--	------	--

Acceptance Action Codes for use by Project Engineer and State Materials Laboratory

1. Acceptance Criteria: Acceptance based upon 'Satisfactory' Test Report for samples of materials to be incorporated into project.
2. Acceptance Criteria: Mfg. Cert. of Compliance for 'Acceptance' prior to use of material.
3. Acceptance Criteria: Catalog Cuts for 'Acceptance' prior to use of material. Catalog Cut Approved Yes No
4. Acceptance Criteria: Submit Shop Drawings for 'Approval' prior to fabrication of material.
5. Acceptance Criteria: Only 'Approved for Shipment', 'WSDOT Inspected' or 'Fabrication Approved Decal' material shall be used.
6. Acceptance Criteria: Submit Certificate of Materials Origin to Project Engineer Office.
7. Acceptance Criteria: Request Transmitted to State Materials Laboratory for Approval Action.
8. Source Approved:
9. Approval Withheld: Submit samples for preliminary evaluation.
10. Approval Withheld:
11. Miscellaneous Acceptance Criteria.

Remarks:

* cc: Peppers, American Construction

Project Engineer Distribution

- Contractor
- Region Operations Engineer
- Fabrication Inspection
- Region Materials
- State Materials Lab
M/S 47365

State Materials Engineer Distribution

- General File
- Other _____
- Signing Inspection

48' x 1.000

208340

YISP 江苏玉龙钢管股份有限公司

JIANGSU YULONG STEEL PIPE CO. LTD

NO.15, YULONG ROAD, YUQI, WUXI, JIANGSU 214183, CHINA
Tel: +86-510-83696197 Fax: +86-510-83689771

MILL TEST CERTIFICATES

Acc to EN 10204-2004 3.1.B



ISO9001:2000

API 5L-0450

P/C No. 04282008-01
Issue No. F02EAM15802355

Manufacturer: JIANGSU YULONG STEEL PIPE CO., LTD
Commodity: PERI-SAWY, LONGITUDINALLY WELDED CARBON STEEL PIPE
Spec: API 5L B742X52 PSL 2
MADE IN CHINA

No.: Y-4153MTC03
Date: AUG 1 2008

All other tolerances including dimensions are per API 2B

PAGE 1/1

Item No	Total Quantity		Type (1)	Outer Size				Heat No	V 9 (4) Minm2	T 5 (1) Minm2	EL 18 %	Hydro-Test		HOT (7)		Hardness Test		T 5 of Minm2	Visual	Flatten-Test	Bend-Test	Impact-Test	RMI (10)	Other Test			
	Pa	Lt		OD (2)	WT (3)	inch	mm					psi	Duration	UT (8)	RT (9)	Blk HV (2)	Rockwell								Weld	Weld	Weld
YL-433-05	26	237 0264	BBE	48"	1219.2	1.000	23.40	40.0	0871005023	475	535	30	1950	210	OK	OK	145	145	151	625	OK	N/A	OK	OK	98	OK	N/A
YL-433-05	24	218 2914	BBE	48"	1219.2	1.000	33.40	40.0	0871005028	465	555	31	1950	210	OK	OK	146	147	155	685	OK	N/A	OK	OK	80	OK	N/A
YL-433-05	34	214 2976	BBE	48"	1219.2	1.000	25.40	40.0	0871005024	470	585	29	1950	210	OK	OK	145	147	154	575	OK	N/A	OK	OK	110	OK	N/A
YL-433-05	26	237 0264	BBE	48"	1219.2	1.000	25.40	40.0	0871005027	475	580	31	1950	210	OK	OK	145	148	155	610	OK	N/A	OK	OK	116	OK	N/A

Chemical Analysis %, on the product

Heat No.	C	Mn	Si	S	P	Cr	Ni	Cu	Mo	V	Nb	TI	B	V10-TI Max	CEC Max 0.13%
0871005023	0.14	1.37	0.29	0.010	0.011	0.021	0.013	0.017	0.001	0.002	0.002	0.004	0.0001	0.044	0.22
0871005016	0.14	1.3A	0.29	0.007	0.018	0.024	0.012	0.016	0.002	0.002	0.003	0.004	0.0001	0.049	0.23
0871005024	0.13	1.3A	0.30	0.009	0.018	0.023	0.011	0.015	0.001	0.002	0.004	0.006	0.0001	0.052	0.22
0871005027	0.14	1.3A	0.29	0.009	0.018	0.024	0.011	0.014	0.001	0.002	0.004	0.006	0.0001	0.052	0.22

Remarks: [1] TYPE BPE=Beck Plain Ends RSE=Beck Beveled Ends BTE=Beck Threaded Ends

Notes:

- Orientation of Tensile Test Specimens: □ Longitudinal & Transverse
- weld in 3A, 5min Q25 4min
- Groove Length 50.0mm
- Impact test size: □ 10x10x5mm □ 7.5x10x5mm □ 5x10x5mm
- Impact test temperature: N/A

- [2] O.D.=Outside Diameter
- [3] W.T.=Wall Thickness
- [4] Y.S.=Yield Strength
- [5] T.S.=Tensile Strength
- [6] EL=Elongation
- [7] HOT=Hot Destructive Test
- [8] U.T=Ultrasonic Test
- [9] R.T.=Radiogram Test
- [10] R.M.=Residual Magnets

We hereby certify that the products herein have been manufactured and tested in accordance with the above specification and requirements called for the order

Quality Director: Cai Jian Feng
 Inspection Dept: _____
 Inspector/Buyer Representative: _____

FOR AND ON BEHALF OF
JIANGSU YULONG STEEL PIPE CO., LTD

唐永清

Authorized signature

MP X 145,059 = PSI

24" x 500 wall

LAONING LARGE SCALE STEEL PIPE CO., LTD

ROLL TEST CERTIFICATE

COPY

CERTIFICATE NO. 019

DESCRIPTION: NEWLY PRODUCED PRIME QUALITY ERW STEEL PIPE

CO. No: L1325082509P

STANDARD: AFI 5L

DATE: 2008-3-8

NO.	HEAT	Pieces	SIZE			WEIGHT (kg/m)	TOTAL WEIGHT (M ²)	CHEMICAL COMPOSITION										BASE METAL MECHANICAL PROPERTIES		ELONGATION (%)	DURATION OF TEST (s)
			W/D (mm)	W/T (mm)	Length (m)			C	Mn	P	S	Si	Ni	Cr	Mo	V	Y.S. (MPa)	T.S. (MPa)			
1	08CD5900	24	0.5	0.5	11.98		0.022	1.42	0.017	0.004	0.010	0.01	0.01	0.01	0.01	0.01	0.01	477	550	20	
2	08CD5903	24	0.5	0.5	11.98		0.038	1.40	0.016	0.006	0.010	0.01	0.01	0.01	0.01	0.01	0.01	458	541	24	
3	08AD3671	24	0.5	0.5	11.98	126.45	0.039	1.40	0.015	0.004	0.010	0.01	0.02	0.02	0.01	0.01	0.01	477	550	30	
4	08AD3676	24	0.5	0.5	11.98	126.45	0.070	1.42	0.016	0.005	0.010	0.01	0.02	0.02	0.01	0.01	0.01	477	550	24	
5	08AD3672	24	0.5	0.5	11.98	126.45	0.038	1.43	0.016	0.006	0.010	0.01	0.01	0.01	0.01	0.01	0.01	477	550	30	
6	08CD5901	24	0.5	0.5	11.98		0.070	1.41	0.018	0.007	0.020	0.01	0.02	0.01	0.01	0.01	0.01	477	550	30	
7	08CD5904	24	0.5	0.5	11.98		0.070	1.41	0.018	0.007	0.020	0.01	0.02	0.01	0.01	0.01	0.01	477	550	30	
NO HEAT		WELD JOINT MECHANICAL PROPERTIES		FLATTENING		VISUAL DIMENSIONS		U.T.		HYDROSTATIC PRESSURE (MPa)		DURATION OF TEST (s)									
		IS. (MPa)		OK		OK		OK		7500		10									
1		08CD5900		555		OK		OK				10									
2		08CD5903		550		OK		OK				10									
3		08AD3671		550		OK		OK				10									
4		08AD3670		555		OK		OK				10									
5		08AD3672		550		OK		OK				10									
6		08CD5901		550		OK		OK				10									
7		08CD5904		555		OK		OK				10									

PIPE HAS BEEN MADE ACCORDING TO ASTM A352 GRADE 3/API 5L AND 160PGT OF Q1L FIELD FOR EACH HEAT NUMBER.

INSPECTOR:

[Signature]

ISSUER:

[Signature]