

Industry & Facilities Division  INSPECTION REPORT Nr CLIENT-15090-170423 J-PECO Job nr: CLIENT-15090-170423	Page 1/17 ☐ Interim ☒ Final
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PROJECT: N/A	Ref: JP-CLIENT-124-15090
J-PECO Client: CLIENT	P/o nr: CLIENT-15090 (client to J-PECO)
Manufacturer: Zhejiang XXX Stainless Steel Co. Ltd.	P/o nr: N/A (J-PECO to Manufacturer)
Inspection requested by: CLIENT	

No.	SUPPLY / SUBJECT OF INSPECTION	Heat Nr	Manufacturer name	Qty(pcs)
1	Pipes, for details please see annex 1	/	Zhejiang XXX	/

DOCUMENTS OF REFERENCE : See continuation sheet for additional documents: ☒ Yes ☐ No				
Title	Reference n°	Rev.	Approved by	Date
3.1 Inspection Test Plan for GPS P.O 15090	N/A	N/A	CLIENT	31.Mar.15
PurchaseOrder_15090	N/A	N/A	CLIENT	22.Feb.17

INSPECTIONS : <u>Inspection place & Date or Period:</u> Place: Longquan, Zhejiang. P.R.C. Date: 21 th -23 rd , Apr., 2017 <u>Stage of inspection :</u> ☐ Before manufacturing ☐ During manufacturing ☒ Final ☐ Packing <u>Kind of inspection:</u> ☐ Pre-inspection meeting ☐ Witnessing tests ☒ Final inspection ☒ Document review ☐ Expediting & vendor assessment ☐ Packing (for details see continuation sheet) <u>Stamping :</u> ☒ No	Results of inspection : ☐ Satisfactory ☒ Unsatisfactory <u>Non Conformities Reports (NCR):</u> ◦ NCR's issued during reported period : None ◦ List of outstanding NCR's : None <u>Main Conclusions & Remarks:</u> (for details see continuation sheet) As per request of CLIENT, J-PECO inspector Jian Zhang performed visit inspection at Zhejiang XXX Stainless Steel Co. Ltd. Inspection items including document review and final inspection. The inspection result was Unacceptable. The inspection details refer to the following report content. <u>Next visit scheduled:</u> N/A
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Description of the inspections carried out:

➤ Introduction

As per request of CLIENT, the undersigned inspector Jian Zhang from Anhui Jipeng Project Supervision and Consulting Co., Ltd. China performed final inspection for the pipes at **Zhejiang XXX Stainless Steel Co. Ltd.** (hereinafter referred to as *Supplier*) during 21th-23rd, Apr., 2017. **The inspection result was Unacceptable.**

J-PECO Scope of work

1. Document review.
2. Final inspection.

Attendees

Name	Company	Title
Jian Zhang	J-PECO	Inspector
Mr. Chen	Supplier	Tech. Dept. Manager
Mr. Chen	Supplier	International Trade Manager

➤ Manufacturing Progress Status and Sampling Ratio

All the pipes were finished when J-PECO inspector arrived and performed the inspection activities according to following sampling ratio:

Document review	Dimension check	NDT	PMI	Visual inspection
100%	30%	30%	10%	100%

➤ Details of inspection activities carried out with respect to scope of work

1. Document review.

J-PECO inspector arrived at Zhejiang XXX and reviewed the process documents provided by the factory, which were including product quality certificate and RT report. The inspection result was acceptable except for some quantity deviation. **Item 35, Po requires 3 pcs but supplier provided 2pcs.**

2. Final inspection.

2.1 J-PECO inspector checked the fittings markings according to order requirement, details as following: mill logo Item description NDT ET (WLD pipe showed RT) HT heat No. GPS Po15090. **But pipe schedule marking had deviation with PO (mill performed S/10s, S/40s but PO without s).**

2.2 J-PECO inspector performed dimension check of the pipe by random sampling of 30% of each item. The inspection result met the requirement of The relevant standard, Details inspection data see the following annex 1.

2.3 J-PECO inspector witnessed PMI of the pipe by random sampling of 10%. The inspection result met the requirement of The relevant standard Details inspection data see the following annex 2.

2.4 J-PECO inspector witnessed NDT include ET, UT and HT test of the pipe by random

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sampling of 30%. The inspection result met the requirement of ASTM E213 & ASTM E426.

2.5 J-PECO inspector performed 100% visual inspection of the pipes. The appearance of the pipe were smooth **but some dirt was found outside of the pipes. Mill replied they would clean and provide photos to GPS before delivery.**

➤ **Problems pending / Areas of Concern**

Please see above details in red.

➤ **Results of Inspection**

The overall inspection result was unacceptable.

➤ **Photos on Site**



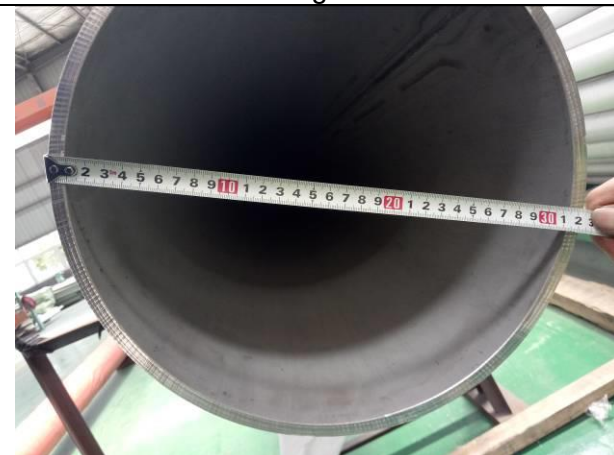
Marking check



Marking check



Dimension check



Dimension check

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Thickness check



Thickness check



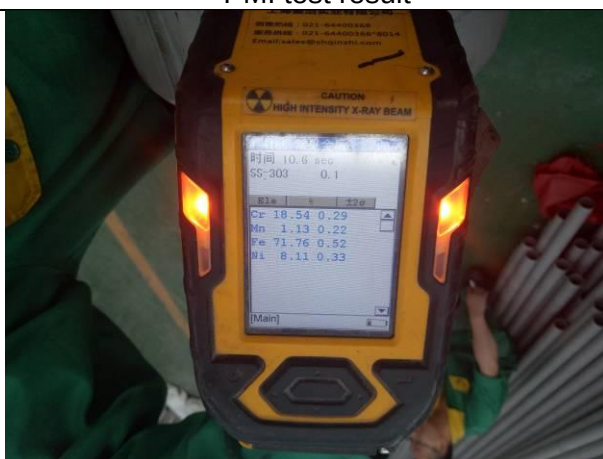
PMI process



PMI test result



PMI process



PMI test result

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PMI process



PMI test result



Visual inspection



Visual inspection



Visual inspection



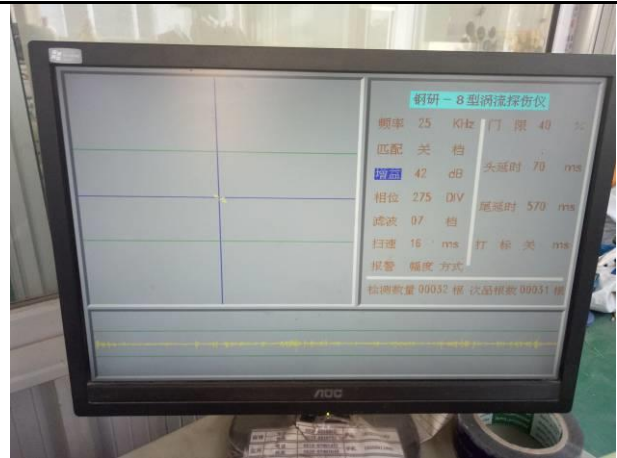
Visual inspection

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ET Test



ET Test



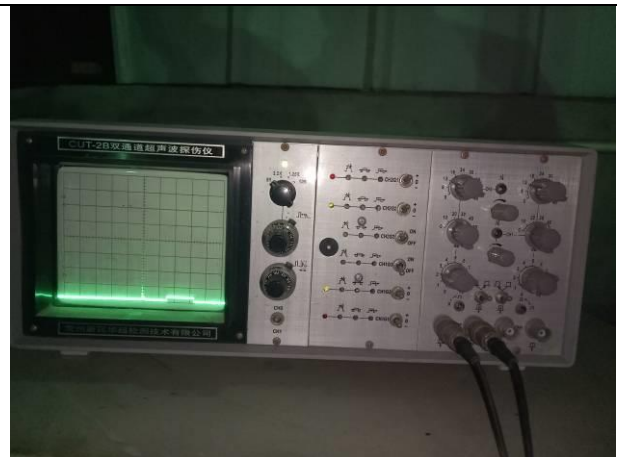
HT Test



HT Test



UT Test



UT Test


☐ Interim
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Annex1:

Dimension Check Record

0.5" S/40 S32750 SA/A 790 SMLS (C), Qty.: 8PCS, Heat No: 1607S121.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	21.3+0.4-0.8	2.77+20.0%-12.5%	6000+1%-0	-	-	-	-
1	20.9-21.1	3.10-3.11	6008-6010	Acc.	Acc.	Acc.	3

0.75" S/40 S32750 SA/A 790 SMLS (C), Qty.: 4PCS, Heat No: 1607S121.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	26.7+0.4-0.8	2.87+20.0%-12.5%	6000+1%-0	-	-	-	-
2	26.7-26.9	2.94-3.07	6005-6007	Acc.	Acc.	Acc.	2

0.75" S/80 S31803/S32205 SA/A 790 SMLS (C), Qty.: 3PCS, Heat No: FK1608-030.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	26.7+0.4-0.8	3.91+20.0%-12.5%	6000+1%-0	-	-	-	-
3	27.0-27.1	3.60-3.62	6006	Acc.	Acc.	Acc.	1

1" S/10 310S/310H SA/A 312 SMLS (C), Qty.: 15PCS, Heat No: 160921Y01.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	33.4+0.4-0.8	2.77+20.0%-12.5%	6000+1%-0	-	-	-	-
4	33.2-33.5	2.44-2.97	6005-6009	Acc.	Acc.	Acc.	5

10" S/80S S31803/S32205 SA/A 790 WLD (C), Qty.: 1PCS, Heat No: 6894342.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	273.1+2.4-0.8	12.7+22.5%-12.5%	6000+1%-0	-	-	-	-
5	272.4-273.5	12.17-12.07	6016	Acc.	Acc.	Acc.	1

2" S/40 310S/310H SA/A312 SMLS (C), Qty.: 3PCS, Heat No: 160818401.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	60.3±0.8	3.91+20.0%-12.5%	6000+1%-0	-	-	-	-
6	60.4-60.2	3.75-3.83	6006	Acc.	Acc.	Acc.	1

2.5" S/40 S31803/S32205 SA/A 790 SMLS (C), Qty.: 2PCS, Heat No: FK1612-081.

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Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	73.0±0.8	5.16+20.0 %-12.5%	6000+1% -0	-	-	-	-
7	73.5-73.7	4.76-5.15	6001	Acc.	Acc.	Acc.	1

1.25" S/80 310/310H SA/A 312 SMLS (C), Qty.: 2PCS, Heat No: 160921Y01.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	42.2+0.4 -0.8	4.85+20.0 %-12.5%	6000+1% -0	-	-	-	-
8	42.2-42.4	4.50-4.59	6010	Acc.	Acc.	Acc.	1

10" S/40 S31803/S32205 SA/A 790 WLD (C), Qty.: 3PCS, Heat No: S666283.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	273.1+2.4 -0.8	9.27+22.5 %-12.5%	6000+1% -0	-	-	-	-
9	272.5- 273.2	9.91-9.94	6002	Acc.	Acc.	Acc.	1

0.5" S/40 304/304L SA/A 312 SMLS (C), Qty.: 3PCS, Heat No: 161203S08.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	21.3+0.4- 0.8	2.77+20.0 %-12.5%	6000+1% -0	-	-	-	-
10	21.2-21.4	2.67-2.71	6005	Acc.	Acc.	Acc.	1

0.75" S/40 304/304L SA/A 312 SMLS (C), Qty.: 2PCS, Heat No: 161203S08.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	26.7+0.4- 0.8	2.87+20.0 %-12.5%	6000+1% -0	-	-	-	-
11	26.5-26.7	2.78-2.74	6008	Acc.	Acc.	Acc.	1

1" S/40 304/304L SA/A 312 SMLS (C), Qty.: 8PCS, Heat No: 161203S08.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	33.4+0.4- 0.8	3.38+20.0 %-12.5%	6000+1% -0	-	-	-	-
12	33.2-33.5	3.20-3.30	6007-6010	Acc.	Acc.	Acc.	3

1.5" S/40 304/304L SA/A 312 SMLS (C), Qty.: 5PCS, Heat No: 161203S08.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
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Standard Value	48.3+0.4-0.8	3.68+20.0%-12.5%	6000+1%-0	-	-	-	-
13	48.1-48.3	3.49-3.61	6009-6011	Acc.	Acc.	Acc.	2

2" S/40 304/304L SA/A 312 SMLS (C), Qty.: 15PCS, Heat No: 160713W05.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	60.3±0.8	3.91+20.0%-12.5%	6000+1%-0	-	-	-	-
14	60.1-60.4	3.75-3.90	6007-6010	Acc.	Acc.	Acc.	5

2.5" S/40 304/304L SA/A 312 SMLS (C), Qty.: 2PCS, Heat No: 161223V04.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	73.0±0.8	5.16+20.0%-12.5%	6000+1%-0	-	-	-	-
15	73.6-73.7	4.67-5.00	6009	Acc.	Acc.	Acc.	1

3" S/40 304/304L SA/A 312 SMLS (C), Qty.: 10PCS, Heat No: 170109S02.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	88.9±0.8	5.49+15.0%-12.5%	6000+1%-0	-	-	-	-
16	88.8-89.2	5.42-5.57	6008-6010	Acc.	Acc.	Acc.	3

4" S/40 304/304L SA/A 312 SMLS (C), Qty.: 8PCS, Heat No: 170109W03.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	114.3±0.8	6.02+15.0%-12.5%	6000+1%-0	-	-	-	-
17	114.1-114.5	5.75-6.05	6004-6007	Acc.	Acc.	Acc.	3

6" S/40 304/304L SA/A 312 SMLS (C), Qty.: 6PCS, Heat No: 160508T04.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	168.3+1.6-0.8	7.11+22.5%-12.5%	6000+1%-0	-	-	-	-
18	168.2-169.0	7.05-7.35	6010-6012	Acc.	Acc.	Acc.	2

8" S/40 304/304L SA/A 312 SMLS (C), Qty.: 4PCS, Heat No: 160570Y11.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	219.1+1.6-0.8	8.18+22.5%-12.5%	6000+1%-0	-	-	-	-



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19	218.5-220.1	8.04-8.36	6005-6010	Acc.	Acc.	Acc.	2
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10" S/40 304/304L SA/A 312 WLD (C), Qty.: 4PCS, Heat No: 1610267.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	273.1+2.4-0.8	9.27+22.5%-12.5%	6000+1%-0	-	-	-	-
20	273.0-274.0	9.25-9.28	6007-6005	Acc.	Acc.	Acc.	2

12" STD 304/304L SA/A 312 WLD (C), Qty.: 4PCS, Heat No: 1610267.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	323.8+2.4-0.8	9.53+22.5%-12.5%	6000+1%-0	-	-	-	-
21	323.5-325.0	9.27-9.36	6016-6010	Acc.	Acc.	Acc.	2

14" STD 304/304L SA/A 312 WLD (C), Qty.: 3PCS, Heat No: 1610267.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	355.6+2.4-0.8	9.53+22.5%-12.5%	6000+1%-0	-	-	-	-
22	355.2-356.5	9.36-9.31	6005	Acc.	Acc.	Acc.	1

16" STD 304/304L SA/A 312 WLD (C), Qty.: 2PCS, Heat No: 1610267.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	406.4+2.4-0.8	9.53+22.5%-12.5%	6000+1%-0	-	-	-	-
23	406.0-408.0	9.25-9.27	6000	Acc.	Acc.	Acc.	1

0.5" S/80 316/316L SA/A 312 SMLS (C), Qty.: 2PCS, Heat No: 701102.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	21.3+0.4-0.8	3.73+20.0%-12.5%	6000+1%-0	-	-	-	-
24	21.2-21.4	3.37-3.44	6009	Acc.	Acc.	Acc.	1

1" S/80 316/316L SA/A 312 SMLS (C), Qty.: 4PCS, Heat No: 701102.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
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Standard Value	33.4+0.4-0.8	4.55+20.0%-12.5%	6000+1%-0	-	-	-	-
25	33.2-33.4	4.12-4.48	6014-6010	Acc.	Acc.	Acc.	2

1.5" S/80 316/316L SA/A 312 SMLS (C), Qty.: 3PCS, Heat No: 701102.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	48.3+0.4-0.8	5.08+20.0%-12.5%	6000+1%-0	-	-	-	-
26	48.0-48.3	4.84-4.88	6009	Acc.	Acc.	Acc.	1

2" S/80 316/316L SA/A 312 SMLS (C), Qty.: 6PCS, Heat No: 61T05.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	60.3±0.8	5.54+20.0%-12.5%	6000+1%-0	-	-	-	-
27	59.8-60.5	4.94-5.27	6009-6012	Acc.	Acc.	Acc.	2

3" S/80 316/316L SA/A 312 SMLS (C), Qty.: 2PCS, Heat No: 1607Y025.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	88.9±0.8	7.62+15.0%-12.5%	6000+1%-0	-	-	-	-
28	88.9-88.8	7.31-7.37	6007	Acc.	Acc.	Acc.	1

4" S/80 316/316L SA/A 312 SMLS (C), Qty.: 2PCS, Heat No: 30669.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	114.3±0.8	8.56+15.0%-12.5%	6000+1%-0	-	-	-	-
29	114.3-114.5	8.11-9.01	6010	Acc.	Acc.	Acc.	1

0.5" S/40 316/316L SA/A 312 SMLS (C), Qty.: 2PCS, Heat No: 701102.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	21.3+0.4-0.8	2.77+20.0%-12.5%	6000+1%-0	-	-	-	-
30	21.2-21.3	2.96-3.07	6004	Acc.	Acc.	Acc.	1

0.75" S/40 316/316L SA/A 312 SMLS (C), Qty.: 2PCS, Heat No: 701102.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	26.7+0.4-0.8	2.87+20.0%-12.5%	6000+1%-0	-	-	-	-



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31	26.7-26.9	2.71-2.78	6008	Acc.	Acc.	Acc.	1
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1" S/40 316/316L SA/A 312 SMLS (C), Qty.: 8PCS, Heat No: 701102.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	33.4+0.4-0.8	3.38+20.0%-12.5%	6000+1%-0	-	-	-	-
32	33.2-33.5	3.09-3.31	6009-6015	Acc.	Acc.	Acc.	3

1.5" S/40 316/316L SA/A 312 SMLS (C), Qty.: 5PCS, Heat No: 701102.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	48.3+0.4-0.8	3.68+20.0%-12.5%	6000+1%-0	-	-	-	-
33	48.1-48.4	3.48-3.60	6007-6010	Acc.	Acc.	Acc.	2

2" S/40 316/316L SA/A 312 SMLS (C), Qty.: 15PCS, Heat No: 701102.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	60.3±0.8	3.91+20.0%-12.5%	6000+1%-0	-	-	-	-
34	60.1-60.5	3.54-4.05	6010-6015	Acc.	Acc.	Acc.	5

2.5" S/40 316/316L SA/A 312 SMLS (C), Qty.: 2PCS, PO requires 3PCS, Heat No: 1607Y025.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	73.0±0.8	5.16+20.0%-12.5%	6000+1%-0	-	-	-	-
35	73.1-73.3	5.00-5.16	6008	Acc.	Acc.	Acc.	1

3" S/40 316/316L SA/A 312 SMLS (C), Qty.: 10PCS, Heat No: 1607Y025.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	88.9±0.8	5.49+15.0%-12.5%	6000+1%-0	-	-	-	-
36	89.6-89.7	5.00-5.48	6007-6010	Acc.	Acc.	Acc.	3

4" S/40 316/316L SA/A 312 SMLS (C), Qty.: 6PCS, Heat No: 1607Y025.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	114.3±0.8	6.02+15.0%-12.5%	6000+1%-0	-	-	-	-
37	114.1-114.3	5.84-6.10	6007-6008	Acc.	Acc.	Acc.	2



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6" S/40 316/316L SA/A 312 SMLS (C), Qty.: 4PCS, Heat No: 30669.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	168.3+1.6 -0.8	7.11+22.5 %-12.5%	6000+1% -0	-	-	-	-
38	168.0- 168.7	6.81-7.20	6006-6007	Acc.	Acc.	Acc.	2

8" S/40 316/316L SA/A 312 SMLS (C), Qty.: 3PCS, Heat No: 30669.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	219.1+1.6 -0.8	8.18+22.5 %-12.5%	6000+1% -0	-	-	-	-
39	219.9- 219.3	8.45-8.22	6007	Acc.	Acc.	Acc.	1

12" STD 316/316L SA/A 312 WLD (C), Qty.: 3PCS, Heat No: 1516152.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	323.8+2.4 -0.8	9.53+22.5 %-12.5%	6000+1% -0	-	-	-	-
40	323.7- 325.0	9.51-9.53	6003	Acc.	Acc.	Acc.	1

2" S/10 316/316L SA/A 312 SMLS (C), Qty.: 10PCS, Heat No: 612T90.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	60.3±0.8	2.77+20.0 %-12.5%	6000+1% -0	-	-	-	-
41	60.1-60.5	2.44-2.79	6004-6009	Acc.	Acc.	Acc.	3

3" S/10 316/316L SA/A 312 SMLS (C), Qty.: 6PCS, Heat No: 612T90.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	88.9±0.8	3.05+22.5 %-12.5%	6000+1% -0	-	-	-	-
42	88.4-88.8	2.85-3.03	6008-6011	Acc.	Acc.	Acc.	2

4" S/10 316/316L SA/A 312 SMLS (C), Qty.: 6PCS, Heat No: 1607Y025.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	114.3± 0.8	3.05+22.5 %-12.5%	6000+1% -0	-	-	-	-
43	114.1- 114.6	2.75-3.09	6000-6006	Acc.	Acc.	Acc.	2

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J-PECO Job nr: CLIENT-15090-170423

6" S/10 316/316L SA/A 312 SMLS (C), Qty.: 4PCS, Heat No: 701T15.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	168.3+1.6 -0.8	3.40+22.5 %-12.5%	6000+1% -0	-	-	-	-
44	168.1- 169.0	3.12-3.36	6008-6010	Acc.	Acc.	Acc.	2

8" S/10 316/316L SA/A 312 SMLS (C), Qty.: 2PCS, Heat No: 30669.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	219.1+1.6 -0.8	3.76+22.5 %-12.5%	6000+1% -0	-	-	-	-
45	218.8- 219.8	4.15-3.70	6005	Acc.	Acc.	Acc.	1

10" S/40 316/316L SA/A 312 WLD (C), Qty.: 3PCS, Heat No: 1516152.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	273.0+2.4 -0.8	9.27+22.5 %-12.5%	6000+1% -0	-	-	-	-
46	272.5- 274.0	9.48-9.52	6007	Acc.	Acc.	Acc.	2

8" S/40 S31803/S32205 SA/A790 Wld (C), Qty.: 4PCS, Heat No: 5702632.

Item	OD	Thickness	Length	Straightness	Appearance	PMI	Sampling Qty.
Standard Value	219.1+1.6 -0.8	8.18+22.5 %-12.5%	6000+1% -0	-	-	-	-
47	218.8- 220.2	7.61-7.75	6002-6006	Acc.	Acc.	Acc.	2

Annex 2:

PMI test record

No	Description	Qty Ordered	Mn	Cr	Ni	Mo	Cu	Sampling Qty.
1	0.5" S/40 S32750 SA/A 790 SMLS (C)	8	0.85	25.44	6.76	3.46	/	1
2	0.75" S/40 S32750 SA/A 790 SMLS (C)	4	0.627	25.87	6.14	3.66	/	1
3	0.75" S/80 S31803/S32205 SA/A 790 SMLS (C)	3	1.59	22.73	5.58	3.08	/	1



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4	1" S/10 310S/310H SA/A 312 SMLS (C)	15	1.36- 1.49	24.40- 24.38	19.35- 19.48	0.059- /	/	2
5	10" S/80S S31803/S32205 SA/A 790 WLD (C)	1	1.40	22.20	5.34	3.00	/	1
6	2" S/40 310S/310H SA/A312 SMLS (C)	3	1.44	24.66	19.13	/	/	1
7	2.5" S/40 S31803/S32205 SA/A 790 SMLS (C)	2	1.17	22.49	5.57	3.15	/	1
8	1.25" S/80 310/310H SA/A 312 SMLS (C)	2	1.36	24.82	19.00	0.09	/	1
9	10" S/40 S31803/S32205 SA/A 790 WLD (C)	3	1.60	22.00	5.92	3.17	/	1
10	0.5" S/40 304/304L SA/A 312 SMLS (C)	3	0.976	18.68	8.13	/	/	1
11	0.75" S/40 304/304L SA/A 312 SMLS (C)	2	1.16	18.94	8.23	/	/	1
12	1" S/40 304/304L SA/A 312 SMLS (C)	8	1.67	18.48	8.06	/	/	1
13	1.5" S/40 304/304L SA/A 312 SMLS (C)	5	1.59	18.51	8.09	/	/	1
14	2" S/40 304/304L SA/A 312 SMLS (C)	15	1.13- 1.57	18.55- 18.56	8.20- 8.18	/	/	2
15	2.5" S/40 304/304L SA/A 312 SMLS (C)	2	1.51	18.41	8.56	/	/	1
16	3" S/40 304/304L SA/A 312 SMLS (C)	10	1.11	18.20	8.42	/	/	1
17	4" S/40 304/304L SA/A 312 SMLS (C)	8	1.42	18.10	8.26	/	/	1
18	6" S/40 304/304L SA/A 312 SMLS (C)	6	1.10	18.72	8.48	/	/	1
19	8" S/40 304/304L SA/A 312 SMLS (C)	4	1.29	18.43	8.13	/	/	1
20	10" S/40 304/304L SA/A 312 WLD (C)	4	1.42	18.44	8.35	/	/	1



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21	12" STD 304/304L SA/A 312 WLD (C)	4	1.46	18.25	8.00	/	/	1
22	14" STD 304/304L SA/A 312 WLD (C)	3	1.45	18.03	8.30	/	/	1
23	16" STD 304/304L SA/A 312 WLD (C)	2	1.18	18.25	8.26	/	/	1
24	0.5" S/80 316/316L SA/A 312 SMLS (C)	2	1.00	16.62	10.15	2.06	/	1
25	1" S/80 316/316L SA/A 312 SMLS (C)	4	0.756	16.74	10.47	2.08	/	1
26	1.5" S/80 316/316L SA/A 312 SMLS (C)	3	1.12	16.51	10.09	2.01	/	1
27	2" S/80 316/316L SA/A 312 SMLS (C)	6	1.13	16.39	10.10	2.04	/	1
28	3" S/80 316/316L SA/A 312 SMLS (C)	2	0.967	16.39	10.17	2.03	/	1
29	4" S/80 316/316L SA/A 312 SMLS (C)	2	0.883	16.43	10.04	2.04	/	1
30	0.5" S/40 316/316L SA/A 312 SMLS (C)	2	0.977	16.30	10.06	2.06	/	1
31	0.75" S/40 316/316L SA/A 312 SMLS (C)	2	0.766	16.78	10.22	2.22	/	1
32	1" S/40 316/316L SA/A 312 SMLS (C)	8	0.897	16.56	10.06	2.12	/	1
33	1.5" S/40 316/316L SA/A 312 SMLS (C)	5	0.803	16.31	10.52	2.01	/	1
34	2" S/40 316/316L SA/A 312 SMLS (C)	15	1.17-0.958	16.55-16.24	10.01-10.03	2.02-2.08	/	2
35	2.5" S/40 316/316L SA/A 312 SMLS (C)	2	1.05	16.24	10.47	2.22	/	1
36	3" S/40 316/316L SA/A 312 SMLS (C)	10	0.90	16.34	10.15	2.16	/	1
37	4" S/40 316/316L SA/A 312 SMLS (C)	6	1.03	16.39	10.28	2.04	/	1



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38	6" S/40 316/316L SA/A 312 SMLS (C)	4	0.853	16.12	10.40	2.01	/	1
39	8" S/40 316/316L SA/A 312 SMLS (C)	3	1.17	16.37	10.50	2.02	/	1
40	12" STD 316/316L SA/A 312 WLD (C)	3	0.606	16.57	10.17	2.13	/	1
41	2" S/10 316/316L SA/A 312 SMLS (C)	10	1.06	16.46	10.02	2.02	/	1
42	3" S/10 316/316L SA/A 312 SMLS (C)	6	1.46	16.14	10.37	2.06	/	1
43	4" S/10 316/316L SA/A 312 SMLS (C)	6	0.877	16.69	11.13	2.04	/	1
44	6" S/10 316/316L SA/A 312 SMLS (C)	4	1.25	16.80	10.08	2.03	/	1
45	8" S/10 316/316L SA/A 312 SMLS (C)	2	0.946	16.57	10.02	2.12	/	1
46	10" S/40 316/316L SA/A 312 WLD (C)	3	0.781	16.75	10.08	2.10	/	1
47	8" S/40 S31803/S32205 SA/A790 Wld (C)	4	1.28	22.62	4.85	3.29	/	1

ANNEXES ☒ Yes ☐ No MTC of 15090**Inspected by:**

Name: Jian Zhang

Signature:

Zhang Jian

Date of issue: Apr. 23rd, 2017**Inspection centre:** J-PECO Project supervision**Checked by:**

Name: Xiaonan Liu

Signature:

Lin Xiaonan.

Distribution: ☒ CLIENT ☐ MANUFACTURER ☒ J-PECO CHINA