INSPECTION CERTIFICATE

NIPPON STEEL & SUMITOMO METAL CORPORATION
HEAD OFFICE: 6-1, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8071, JAPAN
SAKAI LARGE : 1, CHIKKOYAWATA-CHO, SAKAI-KU, SAKAI-SHI,
SHAPE MILL OSAKA-PREF. 590-0901, JAPAN

CONTRACT No. : 4-820-D3-5-5-NV01
REFERENCE No. : J83-YK12X005 CUSTOMER'S CONTROL No.(1) :
SHIPPER : MARUBENI-ITOCHU STEEL INC.
CUSTOMER :
SHIP No. : PROJECT NAME :
COMMODITY : WIDE FLANGE BEAMS
SPECIFICATION : ASTM A992-06A

DATE OF ISSUE: MAY 17, 2014
CERTIFICATE No.: 40517H094-009

REMARKS:
1) TYPE OF STEEL : FULLY KILLED STEEL

SIZE	CUSTOMER'S CONTROL No. (2)	NUMBER OF PRODUCT	MASS KG	CAST No.	TEST No.	TENSILE TEST ※3 7:GL= 8 INCH (RECT) LOCATION ※1	ORIENTATION ※2	SPECIMEN SIZE ※3	TEST TEMP ※4	YP, YS KSI	TS	EL %	YIELD RATIO %	REDUCTION OF AREA AVG %	REDUCTION OF AREA INDIVIDUAL %	BEND TEST LOCATION ※1	BEND TEST ORIENTATION ※2 ※5	IMPACT TEST mm Charpy ※8 LOCATION ※1	IMPACT TEST ORIENTATION ※2	IMPACT TEST SPECIMEN SIZE ※6	IMPACT TEST TEST TEMP ※7	IMPACT TEST AVG	IMPACT TEST INDIVIDUAL
40"X16"X277LX40'		3	150784	L4365	TQ6210	F	L	7		58	76	30	76										
					TQ6220	F	L	7		59	77	30	77										
		5	251304	L4417	TQ5810	F	L	7		56	75	30	75										
					TQ5820	F	L	7		56	75	31	75										
		3	150784	L4424	TQ5910	F	L	7		56	75	30	75										
					TQ5920	F	L	7		57	75	31	76										
		6	301564	L4426	TQ5710	F	L	7		56	75	31	75										
					TQ5720	F	L	7		58	75	30	77										
		3	150784	L4467	TQ6110	F	L	7		57	75	30	76										
					TQ6120	F	L	7		58	76	30	76										
TOTAL		20	100520																				

NOTES:
※1 LOCATION F:FLANGE W:WEB C:CENTER
※2 ORIENTATION L:LONGITUDINAL C:TRANSVERSE Z:THROUGH THICKNESS

CHEMICAL COMPOSITION (※10 L:CAST ANALYSIS P:PRODUCT ANALYSIS) %

CAST No.	※4	C ×1000	Si ×100	Mn ×100	P ×1000	S ×1000	CU ×1000 ×100	NI ×1000 ×100	CR ×1000 ×100	MO ×1000 ×100	NB ×1000 ×100	V ×1000 ×100	SN ×1000 ×100	N ×1000 ×10000	N ×1000 ×1000	T-Aℓ ×1000	Mn/C ×100	CEQ-1 ×100	CEQ-2 ×100	Pcm ×100	TE-1 ×1000 ×100	TE-2 ×1000 ×100
4L4365	L	17	35	123	14	6	2	3	6	1	1	0	0		27		26	39			10	
4L4417	L	17	32	121	17	8	2	2	6	1	1	0	0		21		23	39			10	
4L4424	L	17	33	121	18	7	2	2	5	1	1	0	0		20		20	39			10	
4L4426	L	17	32	122	15	8	2	2	4	1	1	0	0		20		19	38			10	
4L4467	L	17	32	122	14	7	2	2	6	1	1	0	0		40		21	39			10	

CEQ-1=C+MN/6+(CR+MO+V)/5+(NI+CU)/15
TE-1=NB+V

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE IN ACCORDANCE WITH THE RULES OF THE CONTRACT.

H. Eda
SENIOR MANAGER
of QUALITY ASSURANCE DEPT.
WAKAYAMA WORKS

MILL'S CONTROL No. : 19C (E- 7) 2A9D