

Table I – P&E Determination Summary of BV/TCI Radiographic Assessment Accuracy

Item#	BV Sample #	Weld ID	BV/declared Rej. imperfection(s)	P&E quantitative analysis summary	BV conclusion found to be :
1	278	163-2 V18	Burn Through	BV interpret & measurement error – no defect	INCORRECT
2	273	163-1 V8	Burn Through	BV interpret & measurement error – no defect	INCORRECT
3	516	41-1V5	Burn Through	BV interpret & measurement error – no defect	INCORRECT
4	342	175-1 T13	Internal Concavity	BV measurement <del>classical</del> I, but no defect	Marginal - incorrect
5	425	184-21V4	Internal Concavity	BV measurement <del>error</del> <del>classical</del> I, but no defect	Marginal - incorrect
6	2	3-11V8	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
7	4	3-17 V58	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
8	5	3-27 V05	External Undercut	BV code application & measure error –	INCORRECT
9	16	74-1 VC-3	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
10	26	108-4V05	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
11	70	131-3 V01	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
12	85	133-2V1	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
13	248	155-32V8	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
14	270	160-4 V5	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
15	326	173-6 V24	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
16	330	173-7 V74	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
17	333	174-1 V8	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
18	337	174-2 V5	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
19	338	174-3V1	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
20	339	174-3 V12	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
21	336	180-11V40	External Undercut	BV interpret & measurement error – no defect	INCORRECT
22	406	180-9V18	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
23	412	182-5V16	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
24	414	183-1V4	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
25	421	183-19 V16	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
26	430	184-24V2	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
27	475	27-2 V8	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
28	477	29-2 V12	Internal Undercut	BV interpret & measurement error – no defect	INCORRECT
29	484 (2)	3-15V53	1. Internal Undercut, 2. Slag	BV interpret & measurement error – no defect BV interpretation error – weld profile, no defect	INCORRECT

P&E Applied Technology Services Report: 413.61-14.67, Appendix IV –  
 Note: This table links to data in Appendix I, & addresses 49 separate welds

Table I – RBE Determination Summary of BV/TCI Radiographic Assessment Accuracy

Item#	BV Sample #	Weld ID	BV/declared Rej. Imperfection(s)	RBE quantitative analysis summary	BV conclusion found to be :
30	653 (2)	87A-11 VM4	1. Internal Undercut 2. Incomp Pen - IPD	BV interpret & measurement error – no defect BV code interpretation error for IPD length	INCORRECT
31	19	74-2 VC1	Incomp. Pen. IPD/IP	BV code interpret & sizing error – no	INCORRECT
32	15	106-1V2	Incomp. Pen – IPD	BV measurement error close call, but no defect	Marginal - incorrect
33	68	131-3V89	Incomplete Pen. IP	BV interp. error & failure to follow readersheet	INCORRECT
34	71	131-3 V85	Incomp. Pen – IPD	BV unambiguous interpretation error	INCORRECT
35	307	168-1 V12	Incomp. Pen - IP	BV ambiguous and incomplete citation	Marginal - incorrect
36	394 (3)	180-16VM	1. Incomp. Pen – IP 2. Incomplete Fusion IF 3. Incomplete Fusion IF	BV incorrect decision on noted info only weld BV incorrect decision on noted info only weld BV incorrect decision on noted info only weld	INCORRECT
37	475	27-2 V8	Incomp. Pen – IP	BV interpret & measurement error – no	INCORRECT
38	625	80-3V2	Incomp Pen – IPD	BV correct interpretation, but weld was not to code, though incorrectly noted pre-repair	Correct but this is a not to code weld
39	638	87-14 V2	Incomp. Pen – IP	BV measurement error close call, but no defect	Marginal - incorrect
40	39	144-2VM1	Slag	BV interpretation error – no Rej. Slag defect	INCORRECT
41	277	163-2 V24	Slag	BV interpretation error – no Rej slag de	INCORRECT
42	47	126-3 VM8	Slag	BV interpretation – film artifacts, no s	INCORRECT
43	156	152-6 VM7	Porosity	BV interpretation – No rejectable Porosit	INCORRECT
44	20	74-4 VM	Incomplete Fusion	BV interpretation error – no rejectable	INCORRECT
45	155	152-6VM6	Incomplete Fusion	BV interpretation error – no IF defect	INCORRECT
46	433	184-29V81	Incomplete Fusion	BV interpretation error – film condition/artifacts	INCORRECT
47	459	24-1 VC2	Incomplete Fusion	BV reader sheet Interp. Error	INCORRECT
48	460	24-3VM1	Incomplete Fusion	BV interpret & measurement error – no defect	INCORRECT
49	512	39-1 V27	Incomplete Fusion	BV Interp./Mnt. error call, but no defect	Marginal - incorrect

Note: This summary table contains RBE's analysis of each instance where throughout the various sections and versions of BV's reports, BV has reported a "Defect", "Rejectable" "non-compliant imperfection" item within the weld. While BV has reported a total of welds in their latest summary, in the body of the reports, 49 welds are identified ; non-compliant weld imperfections. RBE has reviewed all of these, and found no code discrepancies.

RBE Applied Technology Services Report: 413.61-14.67, Appendix IV –  
 Note: This table links to data in Appendix I, & addresses 49 separate welds

Summary of BV Assessment Performance on all welds cited with "non-compliant imperfections"

