

# NAFLIC

*National Association For Leisure Industry Certification*

Standards & Related Documents Committee

TECHNICAL BULLETIN — JUNE 2008

## 339. Over the shoulder passenger restraint Safety Alert

The committee has received the attached safety alert from Bolliger & Mabillard. Other manufacturers use similar designs and in some cases the critical section may be covered by the foam padding.

Committee Members:- Mr. R Nicholls(Chairman), Mr. Peter Smith,  
Mr. John Green, Mr. Phil Mitchell, Mr. Ron Dale, Mr. Mark Wolstenholme, Mr. Graham Dockerty & Mr. David Inman  
© June 2008

PO BOX 752, SUNDERLAND, SR3 1XX      TEL & FAX: (0191) 5239498  
standards@naflic.org.uk



# BOLLIGER & MABILLARD

CONSULTING ENGINEERS INC.

Ch. des Dailles 31  
1870 Monthey  
Switzerland

Tel. +41 244 721 580  
Fax +41 244 719 584  
info@bolliger-mabillard.com

Bulletin No.:	2
Release Date:	June 1, 2007
Effective Date:	June 1, 2007
Supersedes:	
Issued by:	A. Pinizzotto
Checked by:	W. Bolliger
Page:	1 of 4

## SAFETYALERT

**Affected Park:**

**Affected Ride:**

**Ride Name:**

**Drawing No:** SC-033-101  
**Item No:**

**Abstract of Issue:**

Inspection of the safety harnesses weldments as per Detail of Issue.

**Reason for Release:**

Cracks were discovered on several harnesses.

**Action to be taken:**

- 1) Visual and magnetic particle inspection of the safety harnesses in the area shown in the Detail of Issue.
- 2) Harnesses presenting indication must be repaired or replaced according to the Detail of Issue criteria.
- 3) Seats with defective harnesses must not be operated until their repair or replacement.

**Completion:**

- visual inspection : immediately
- magnetic particle testing : within a week

**Further inspections:**

Repaired harnesses: daily visual inspection of the weldments during the 2007 season. Then, visual inspection on a weekly basis as indicated in the Maintenance Manual.

Other harnesses: weekly visual inspection of the weldments as indicated in the Maintenance Manual.

**Detail of Issue:**



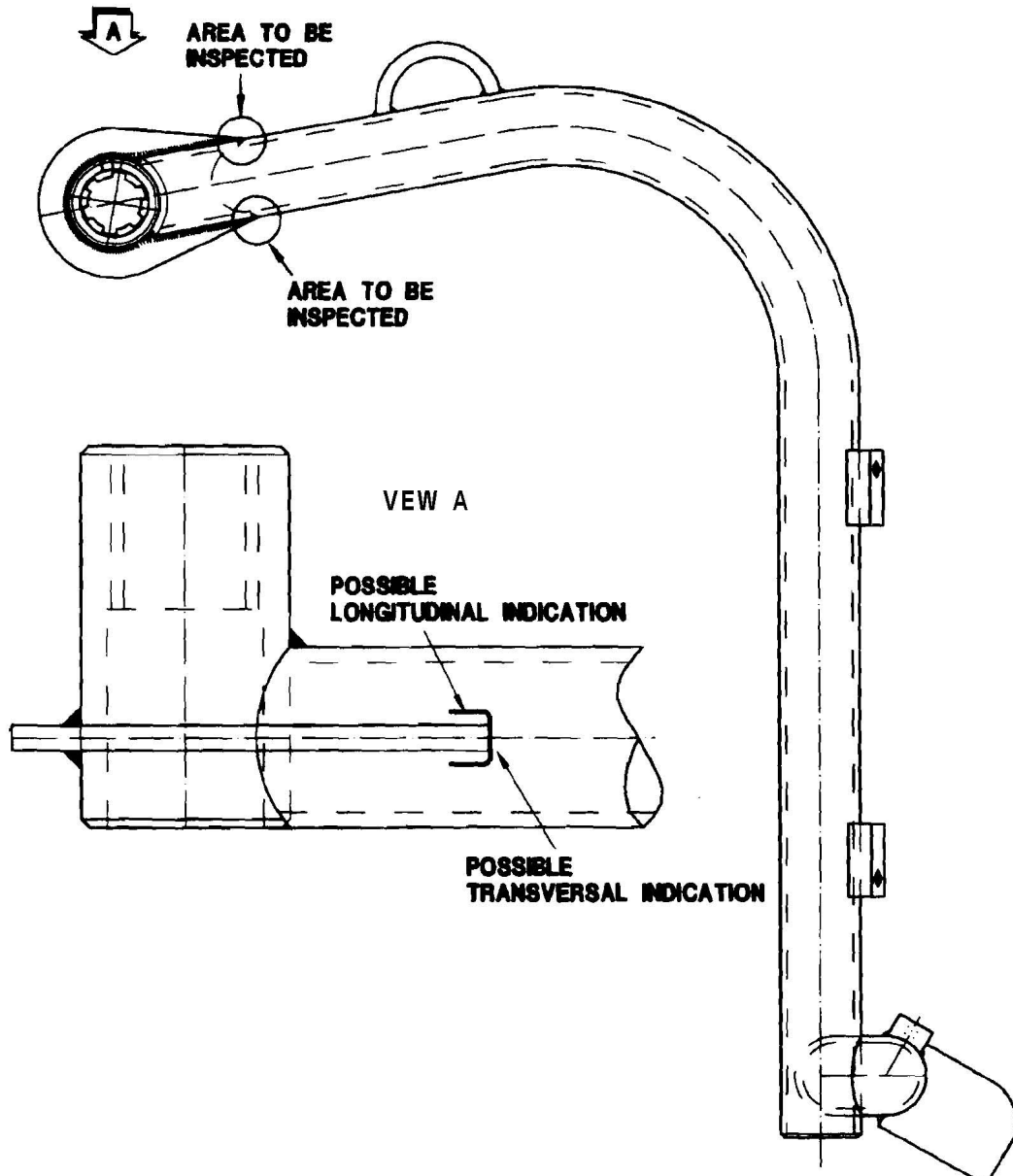
**Indication found**

⇒ harness can be repaired if the indication is smaller than 25 mm (1 inch) in length. Harness presenting larger indication must be rejected and replaced.



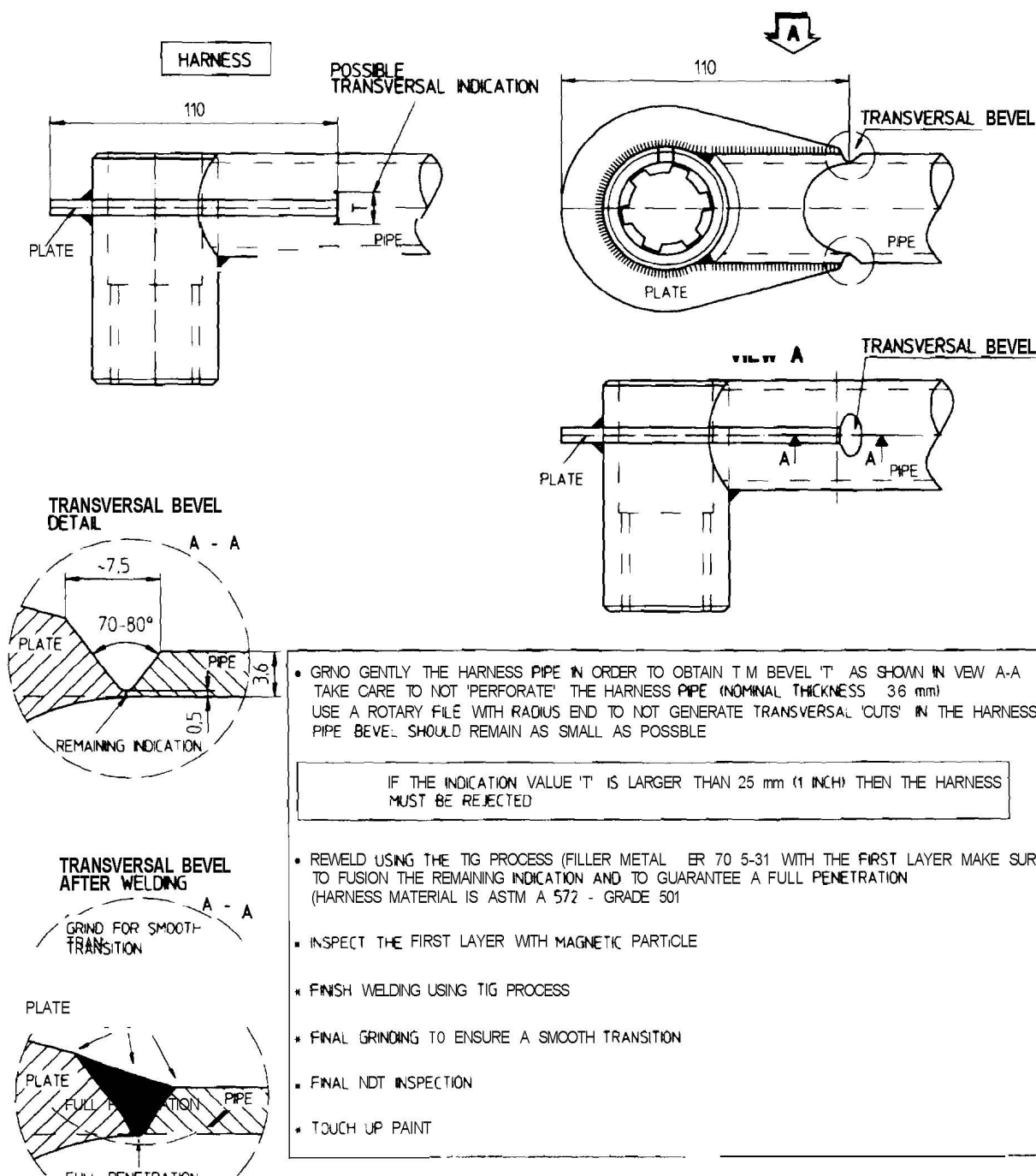
## SAFETY ALERT

Detail of Issue: Visual and magnetic particle inspection of the harness weldment



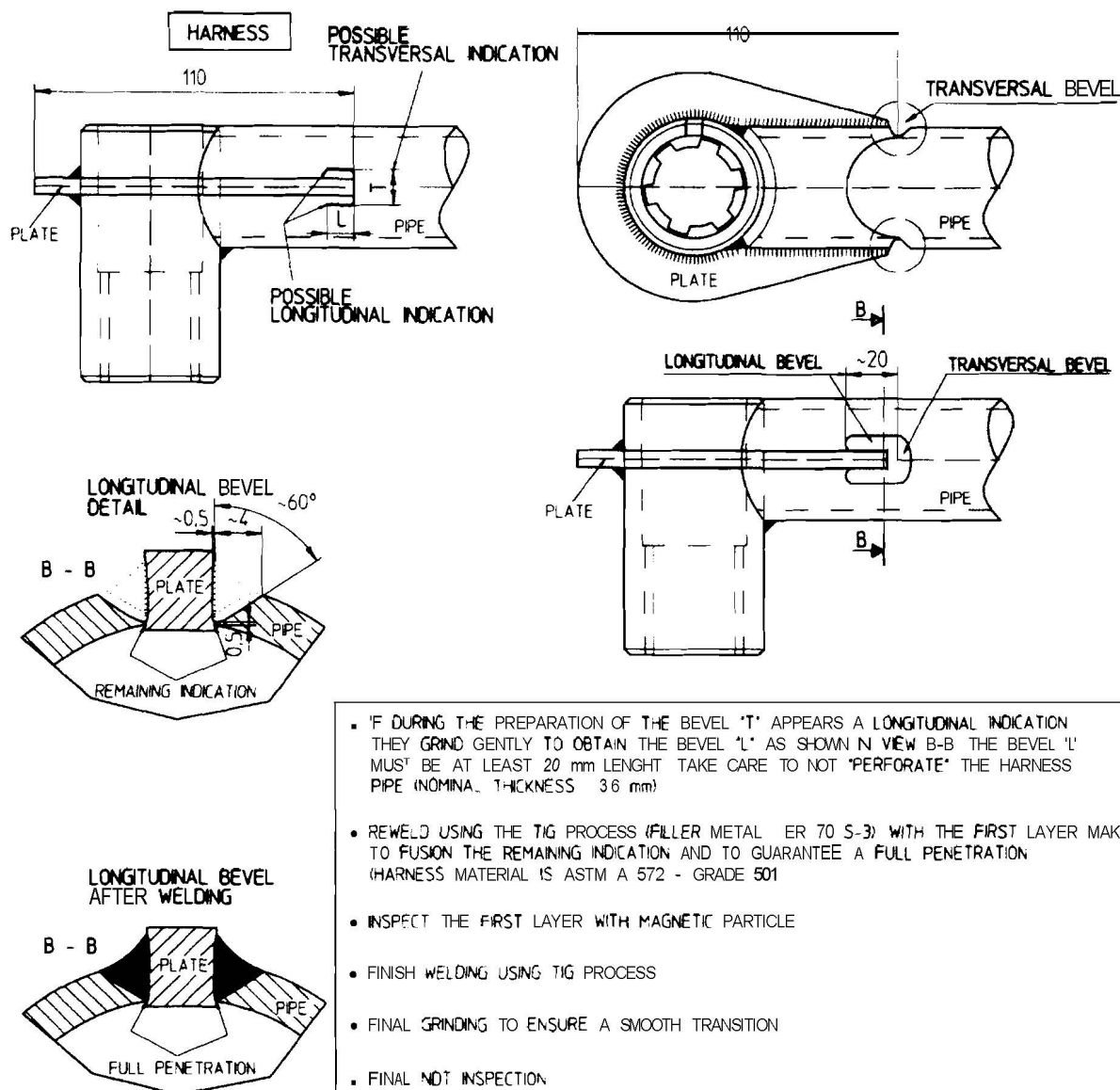
## SAFETY ALERT

Detail of Issue: Transversal indication – Repair procedure



## SAFETY ALERT

Detail of issue: Repair procedure in case of longitudinal indication



- IF DURING THE PREPARATION OF THE BEVEL "T" APPEARS A LONGITUDINAL INDICATION THEY GRIND GENTLY TO OBTAIN THE BEVEL "L" AS SHOWN IN VIEW B-B. THE BEVEL "L" MUST BE AT LEAST 20 mm LENGTH. TAKE CARE TO NOT "PERFORATE" THE HARNESS PIPE (NOMINAL THICKNESS 3.6 mm).
- REWELD USING THE TIG PROCESS (FILLER METAL ER 70 S-3). WITH THE FIRST LAYER MAKE SURE TO FUSION THE REMAINING INDICATION AND TO GUARANTEE A FULL PENETRATION (HARNESS MATERIAL IS ASTM A 572 - GRADE 501).
- INSPECT THE FIRST LAYER WITH MAGNETIC PARTICLE.
- FINISH WELDING USING TIG PROCESS.
- FINAL GRINDING TO ENSURE A SMOOTH TRANSITION.
- FINAL NOT INSPECTION.
- TOUCH JP PAINT.