ABSTRACT

The communication deals with the SNCF experience of track-bridge interaction. Following items will be successively treated:

- long welded rails: conception, design and current effects on plateform
- bridges as singular points in the current plateform
- behaviour of the attach from the track on the bridge deck
- dimensionning of structures including track-bridge interaction, preliminary approch and fem calculation
- associated equipment (joints and dilatation devices)
- conception of structure in order to manage the phenomenon
- examples of good practices in terms of general design for structures submitted to track-bridge interaction.