TRANSNET FREIGHT RAIL		
File Ref: **S.RTS 1/6/16/8**	**LOADING SPECIFICATION FOR ALL TYPES OF ORES**	**Document no:** **RSE/TE/LPR/0010**
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Author:	**Mr F J Trollip** **Designer** **Transnet Rail Engineering**	**Signature:** *Signed by: F.J. Trollip*	**Issue date:** **18 October 2007**
Technical Approving Officer:	**Dr R D Fröhling** **Principal Engineer** **Technology Management**	**Signature:** *Signed by: Dr R.D. Fröhling*	**Page 1 of 5**
Operational Approving Officer:	**Mr J S F Marais** **Executive Manager** **Service Design & Evaluation**	**Signature:** *Signed by: J.S.F. Marais*	

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SCHEDULE OF AMENDMENTS

Amendment number	Section amended	Summary of amendments	Date issued

PRIEVIEW COPY ONLY

1. INTRODUCTION

This loading specification is for the loading of all types of ores on various types of open wagons.

This loading specification supersedes all previous loading instructions, letters, granted concessions and granted deviations. It is the responsibility of the recipient to destroy all old documents.

2. PRODUCT DESCRIPTION

Product	Density
Chrome	2.7 ton/m^3 to 2.95 ton/m^3
Ferrochrome	2.8 ton/m^3 to 3.9 ton/m^3
Carbon Ferromanganese	3.8 ton/m^3 to 4.7 ton/m^3
Silicon Manganese	3.3 ton/m^3 to 3.5 ton/m^3
Manganese ore	3.7 ton/m^3 to 4.6 ton/m^3
Lead ore	7.3 ton/m^3 to 7.6 ton/m^3
Iron ore	3.6 ton/m^3 to 5.4 ton/m^3
Copper ore	4.1 ton/m^3 to 4.3 ton/m^3
Zinc ore	3.9 ton/m^3 to 4.2 ton/m^3

3. WAGON REQUIREMENTS

- Before any wagon is loaded the wagon must be clean and in a rail-worthy condition.
- All foreign objects must be removed from the wagons.
- Wagons used for transporting ores are type A, AZD/J, BAL/J, CFR, CMR, CR, DGLJ, DJ and DZ family of wagons.
- Under no circumstances shall defective wagons be used.

4. PAYLOAD DISTRIBUTION

- The carrying capacity stencilled on the wagon shall not be exceeded.
- Skew loading shall be minimized.
- The wagon must be considered as consisting of two equal halves, left and right, when viewed from the side. The load placed on either half of the wagon must be as equal as possible. See Figure 1.
- The difference in mass between the loads placed on each halve of the wagon, must not be more than 5 tons.
- The load difference between the left and right hand side, looking from the end of the wagon, must not differ by more than 3 tons. See Figure 2.
- If the load protrudes above the sides of the wagon, the load against the sides must stop at least 100 mm below the top of the sides. Refer to Figure 2 and 3.
- Ore loaded with a front-end loader into a wagon, must be levelled in order to get a better distributed load.
- Wagons, which are not loaded according to this specification, will not be accepted for conveyance.
- Transnet reserves the right to stop such wagons detected en-route that do not comply with these conditions.
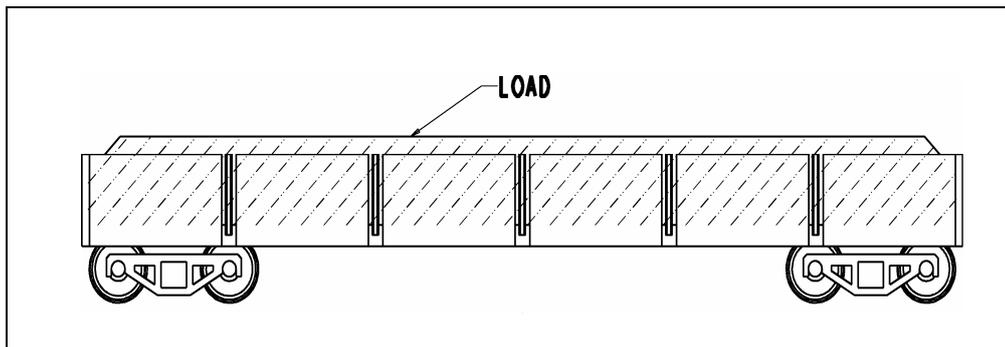
Figure 1 - Load uniformly distributed over the length of the wagon.
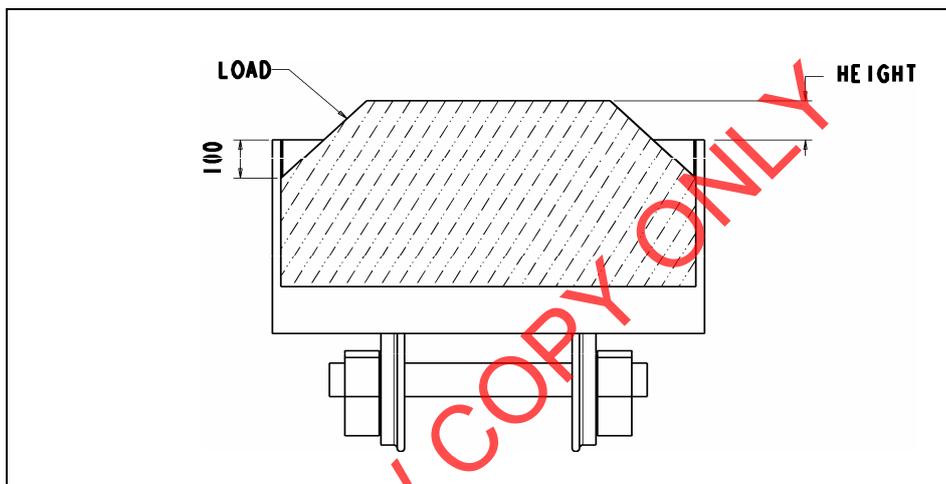

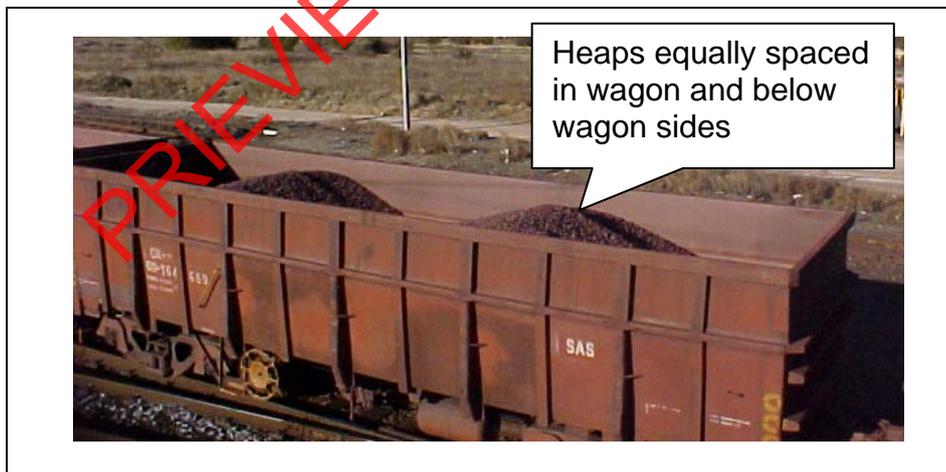Figure 2 - Load centrally loaded across the width of the wagon.

Figure 3 – Load below wagon sides

5. SHUNTING OPERATIONS

Please note that under no circumstances may wagons be shunted by pulling wagons on their ends with a back actor or the scoop of the off-loader. This is an illegal and uncontrolled shunting action. Proper shunting method guidelines can be obtained from the local Transnet Operation Offices.

6. AMENDMENT OF LOADING SPECIFICATION

This loading specification is subject to change without prior notice if it either impacts on safety or if modifications/improvements are necessary.