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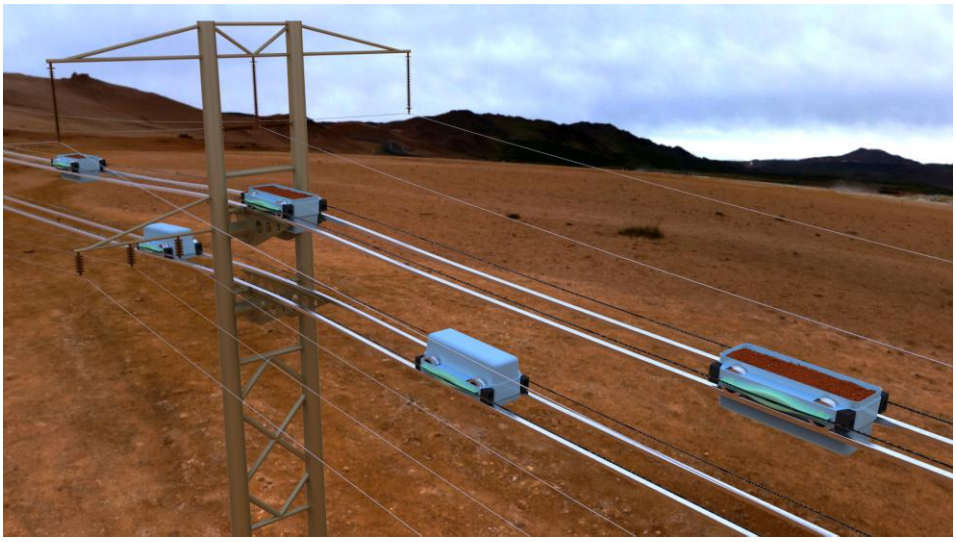
A.E.Yunitskiy

19 November 2010

CONCEPT DESIGN

STS Freight Suspended Transport System for Iron Ore Haulage with the capacity of 30 million tons per annum

Part 3. STS 102 Freight Suspended Transport System with Cable Drive



Sydney — Minsk
2010

The List of Major Implementors

STU General Designer, Managing Director of STU Pty Ltd	A.E.Yunitskiy
Executive manager, The Head of STU Pty Ltd Representation Office in the Republic of Belarus	I.P. Dubatouka
Chief Designer	V.V. Danshchykou
Deputy Chief Designer	V.Y. Akulau
The Head of Design and Layout Department	A.I. Laptsevich
The Head of Body Design Department	S.S. Zavalikhin
The Head of Running Gear Design Department	U.U. Dabravolski
The Head of Power Equipment Design Department	A.P. Lashkevich
The Head of Optional Equipment Design Department	S.N. Aliakhnovich
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Contents

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1. Explanatory Note

102-0000010ПЗ

Explanatory Note Contents

1.1 Introduction

1.1.1. Name, Designation, Field of Application and Development Purpose

Name: STS Freight Suspended Transport System for Iron Ore Haulage with Cable Drive (hereinafter referred to as STS 102 Transport System).

Designation: 102-0000010.

Field of application: small- and middle lump iron ore transportation at a distance of 250km in conditions of Australia.

Development purpose: design and technological solutions development, specification of certain characteristics to be used in development of freight transport system.

1.1.2. Development Basis

The basis for the development of STS 102 freight transport system is «Services Agreement — Appendix A — Description of Work # 001, dated 14.08.2010».

1.1.3. Customer

String Transport Systems Limited, ACN 141 651 812 , Australia

1.2 General Description of STS 102 Transport System

STS 102 transport system consists of:

-unicars (rail cars);

- string-rail track structure and supports (intermediate and anchor);

-cable drive;

- loading and unloading terminal stations;

- electric equipment;

- power supply system;

- auxiliary equipment.

General arrangement of STS 102 transport system is represented in Fig.1.1, specifications are listed in Tab.1.1.