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High Speed SRS Intercity String Transport System

Technical Analysis

Optimal model range

Criteria and parameters of the system



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1 Introduction

1.1 Name, Field of Application and Development Purpose

Name: High Speed SRS Intercity String Transport System. Technical analysis. Development of the optimal model range. Identification of the optimal criteria and parameters of the system.

Field of application: High speed passengers transportation.

Development purpose: Preliminary research of technical and economic parameters; development of the main technical solutions for the concept of a new high speed ground-level SRS transport system, based on STU technology; identification of the optimal criteria and parameters of the system.

1.2 Development Basis

The basis for the Technical Analysis of High Speed SRS Intercity String Transport System is Statement of Work No.001, dated and effective 23rd of February 2011 submitted in connection with the Master Services Agreement by and between String Technologies Unitsky Pty Ltd (ACN 144 498 251) and Silk Rail Systems Limited (ACN 144 498 411), dated 17th of December 2010.

1.3 Customer

Silk Rail Systems Limited (ACN 144 498 411), Australia.

1.4 Introductory Clause

During the past two centuries human civilization has been developing in the way of urbanization, i.e. the creation of cities and urban agglomerations. This process was rapidly developed in the XX Century and is in progress in the XXI Century. By now



more than 50% of world's population lives in the cities. By 2025 urban population will account for 2/3 of the total world population. According to experts estimates about 80% of the population of developed countries will live in the cities by 2030. It was established that half of the world's population lives in the cities with the population over 500,000 people. The number of large cities (million inhabitants) and very large cities (ten million inhabitants) is growing steadily. The cities are not just the centers of population living, but also business and employment centers, cultural and sports centers. At the same time globalization, economic growth and rapid spreading of information resulted in spatial mobility of population. Therefore, there is great necessity in providing high-speed transportation of large masses of people at an average (more than 100 km) and long (more than 1000 km) distances. Existing transport systems (air transport, automobiles, rail and water transport systems) do not provide the required mobility of the population. It is the main reason for dynamic growth of high speed ground-level public transportation, such as high speed railways and maglev trains.