UBLIS571%Assignment1

Spring 2016

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|  | **Assignment 11** | ***Assigned: March 23*** |
|  |  | ***Due: March 30*** |

**Request-oriented indexing exercise**

Starts on next page

Document 1.**Supersonic transport operating practices during simulated operations in future air traffic control systems environments**

Operating practices of the supersonic transport (SST) during simulated operations in air traffic control (ATC) system environments conceived for the time period of introduction of the SST into service are presented. An SST flight simulator and the Federal Aviation Administration ATC simulation facilities were used to create the real-time simulations. The SST flight simulator was operated by airline crews and the ATC simulation facilities by experienced air traffic controllers. The test program included departure and arrival operations under instrument flight rule conditions in the New York and Los Angeles terminal areas with two design study configurations of the SST. The design study configurations were representative of variable-sweep and fixed-wing design. Both designs had a variable-incidence forebody.

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| **Facet** | **Write in applicable descriptors** Or check  | **Not applicable** |
| **B Mode of transportation** |  | **☐** |
| **E Transp. system elements** |  | **☐** |
| **F Power** |  | **☐** |
| **G Propulsion** |  | **☐** |
| **H Materials to build** |  | **☐** |
| **J Passenger vs. freight** |  | **☐** |
| **K Operations** |  | **☐** |
| **L Provider** |  | **☐** |
| **M Creation** |  | **☐** |
| **N Administration** |  | **☐** |
| **Q General and others** |  | **☐** |
| **R Geographical range** |  | **☐** |
| **S Geographical location** |  | **☐** |

**Optional. Precombined descriptor**:

Document 2**A Plan for a New Consolidated Passenger Ship Terminal in the Port of New York.**

Passenger ship activity in New York, existing passenger ship piers, design criteria, alternate solutions, proposed custom examination system, proposed terminal layout.

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**Optional. Precombined descriptor**:

Document 3 **A system for bus rapid transit on urban freeways.** Traffic Quarterly Oct. 1969

Describes the design of a system of buses sharing the general freeway lanes with regular traffic but having separate entrance and exit ramps. A sophisticated traffic control system would give preference to buses to guarantee predictable travel times. Compares cost and effectiveness (as measured by passengers carried in peak travel times) with other rapid transit

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**Optional. Precombined descriptor:**