# Orange Auto Part Manufacturer (6)

Based on the results of the simulation of the OAPM (5), the plant manager wants to examine what would happen if parts from the drilling operation were *batched* into like *groups of two* before they are inspected.

Parts may only be batched with another part of the same type. The two parts can then be inspected together in a time between 4 to 6 minutes.

*Note: The decision for passing/failing a part should still be independent of the batch.*

The plant manager has also asked that the model include the delays for the part handoffs between process areas as well as the *animation* reflecting the part handoffs. In addition, it is requested that *a unique entity picture be created for parts that have successfully completed inspection*.

Estimated routing delays provided by the plant manager:

|  |  |  |
| --- | --- | --- |
| From Station | To Station | Move Time (minutes) |
| Inventory Station | Drilling Station | Constant (2) |
| Paint Station | Inspection Station | Constant (3) |
| Inspection Station | Shipping Station | Constant (3) |

Run the model for five 8-hour days. The base time units should be minutes.  
Examine part cycle-time statistics, number in queue statistics, and resource utilization statistics.