

Same Instrumentation – Group Nouns

The instrumentation within the cabin of the Yard Truck shall include a tachometer.

The instrumentation within the cabin of the Yard Truck shall include an engine hour meter.

How do we know it is the same instrumentation?

Yard Truck is a unique object – an EndNoun in the local dictionary. But it should still work on “the vehicle” – any object where a definite article without qualification is used.

The cabin of the Yard Truck – “the” before cabin without a qualifier says there is only one, whereas

The rear cabin of the Yard Truck – implies there may be more than one.

Our rule – If we have a chain of definite articles without other qualifiers, we will assume a unique object or objects. The prepositional chain allows instantiation of the object along the chain. We are starting from the left of the chain, so we can catch collocated verbs, but must now look to the right of the chain to determine uniqueness.

We have built the objects independently – do we merge them into one object, or do we use ISS operators? Seems easier to merge, although it will get messy with ten or twenty statements.

Later, we will handle the case of object switching:

The forward cabin of the Yard Truck shall be carpeted.

The interior of the cabin shall be painted yellow.

The aft cabin of the Yard Truck shall be suitable for a wet environment.

The interior of the cabin shall be painted green.

If we have

The instrumentation within the cabin of the Yard Truck...

The instrumentation of the hydraulic system of the Yard Truck...

How do we handle

All instrumentation shall be back-lit illuminated and dimmable.

The general statement has to find the things on which it should operate, so it has to find

The instrumentation within the cabin of the Yard Truck...

The engine of the Yard Truck shall have an hour meter fitted within the engine bay.

That is, it has to handle objects of itself at the component level, and objects that meet its definition (instrumentation is a group object on instruments).

How often do we need to activate group nouns so they find what they cover? – we may need a property of a group earlier than at the end of reading.