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EFFECT OF NAVY SPECIAL FUEL OIL ON THE CHARGING TENDENCY OF JET FUEL.

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Abstract:

As part of a long-range study on the generation and dissipation of static electricity in hydrocarbon liquids, the effect of Navy Special Fuel Oil contamination on the conductivity and charging tendency of JP-5 fuels was examined on a laboratory scale. It was found that while the conductivity of jet fuel increases with the addition of Navy Special Fuel

Oil, the magnitude of this effect depends upon the nature of the impurities in both the JP-5 and the Navy Special Fuel Oil. The results of the present study indicated that if a load of jet fuel were to become contaminated with Navy Special Fuel Oil so that the conductivity of the resulting product were in the proper range, this fuel would emerge from a filter/separator unit in a much more highly charged condition than if it had not been contaminated. However, as long as sufficient time is permitted for the charge to relax before the fuel enters the receiving tank, no increase in electrostatic hazard should occur. (Author)

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