

Non-standard procedure request example

Name, research lab, phone: Bruce Hinds, Hinds lab, 7-2300ex262

Period of use: Feb2002-June2002 estimated

General description: Want to use the general use furnace for the sublimation/recrystallization of pentacene. Temperatures of ~300C with N₂/H₂ flow.

Materials used (provide MSDS sheets): Powdered pentacene, H₂, N₂ gasses

Safety Hazards and Precautions: H₂ is an explosive gas. We are diluting H₂ with N₂ to a non-explosive mixture of 30% H₂. Gas flow is metered at less than 100ml/min. Gas is vented to fume hood to exit building with high air flow rate. Gas cylinder tie downs are provided. Pentacene offers little health risk as handled

Equipment to use: General use furnace in A-369

Contamination Hazards, precautions and cleaning: Pentacene is highly volatile at these temperatures and will coat the cold parts of furnace tube. However, pentacene is highly soluble in many solvents. The tube will be cleaned with acetone, then DI H₂O after use.

Waste Disposal: The acetone/pentacene waste from cleaning will be disposed of in containers provided by the Hinds' lab and stored in the Hinds' lab. Solid pentacene will be stored in solid waste container of the Hinds' lab.

Non-standard procedure request at CMMED

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Safety Hazards and Precautions:

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Approval signature: