

Peer Review Comments: *General Considerations for Engineering Controls*

Success Criteria	Comments
Does this represent effective HS&E practice or can you see major technical flaws?	No major technical flaws noted in practices introduced.
How suitable is this tool for use by a small or medium enterprise? (assume they can hire a professional resource if necessary)	With professional resource, this tool could be used.
How relevant do you think this tool is to nanotechnology? (some of the tools have been adapted from other issues e.g. handling respiratory allergens – in these situations do you feel it may be non or poorly applicable to nano?)	Tool appears to have been developed specifically to address nanoparticle handling.
Is there anything that could be added to this tool to make it more effective?	<p>-Tool has 3 main technical sections. They should be reordered to remain consistent with IH hierarchy of controls indicated in introductory ‘General’ section, i.e. 1st-Physical or chemical containment; 2nd-Ventilation and flow extraction; 3rd-HEPA filtration.</p> <p>-While the ventilation section refers to effective HEPA filtration of any ventilation or vacuum exhaust, the introductory sentence of the HEPA filtration section refers to respirators, yet I don’t believe it is intended to be guidance for respirator selection (since the title of the tool refers only to engineering controls). Maybe the sentence could be improved so that respirators do not appear to be the topic of discussion in the section.</p>
Please supply a short (3-5 sentence) summary that we may post with the tool on the compendium. Indicate what the tool delivers, how effective you think it is and any major limitations.	This tool emphasizes the industrial hygiene hierarchy of controls to control exposures in processes involving nanoparticles. Background information and examples of specific approaches are offered for: Physical or chemical containment; Ventilation and flow extraction; and HEPA filtration of process exhaust.