Item No._____
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DWA-2006-1

Joint Committee Issue Document

NOTE: An issue document may be submitted at any time -- it comprises two parts: the cover sheet (this page) and a description of the issue to be submitted to the Joint Committee (following page). A separate issue form is required for each issue submitted. Issue papers include proposals for modification of a standard, information reports (of current research, etc.) and reports of Task Forces. An issue paper shall be categorized as being for ACTION or for INFORMATION. Submitters should limit the Issue Paper to 1 or 2 pages -- attachments detailing full recommendations or background information may be attached with supplementary information. The Chairperson of the appropriate Joint Committee will respond within 30 days of receipt of the issue document advising what steps will be taken. Any issue document intended for discussion at a Joint Committee meeting must be received at least 21 days prior to the meeting to ensure inclusion in the agenda.

Submit to:

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Item No._____
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Please insert a check (✓) in the appropriate place to indicate if you wish the item to be considered as an action item or as an information item.

Action _____X_____ Information _____

NSF Standard(s) Impacted: **NSF 61**

Issue Statement:
Provide a concise statement of the issue, which reference as appropriate any specific section(s) of the standard(s) that are related to the issue.

Criteria is required for the evaluation of regenerated media and the regeneration process

Background:
Provide a brief background statement indicating the cause and nature of concern, the impacts identified relevant to public health, public understanding, etc, and any other reason why the issue should be considered by the Committee.

Some companies are claiming process media is certified to NSF 61 for regeneration. It is not clear this regenerated media has been thoroughly evaluated for any potential contaminants that can be added to drinking water and the standard currently contains no guidelines for this evaluation.

Recommendation:
If action by the Joint Committee is being requested, clearly state what action is needed: e.g., recommended changes to the standard(s) including the current text of the relevant section(s) indicating deletions by use of ~~strike-out~~ and additions by highlighting or underlining; e.g., reference of the issue to a Task Force for detailed consideration; etc. If recommended text changes are more than a half page, please attach a separate document.

Attached.

Supplementary Materials (photographs, diagrams, reports, etc.):

Item No._____
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If not provided electronically, the submitter will be responsible to have sufficient copies to distribute to committee members.

Submitter _____ Date _____

Suggested Revisions NSF Standard 61
Requirements for the Evaluation of Regenerated and Reactivated Process Media

3 General Requirements

3.3.3 Requirements for regenerated and reactivated process media

Media that is taken from a water treatment facility and regenerated or reactivated and returned to the same or different water treatment facility shall require a complete description of the reactivation/regeneration process including transportation to and from the facility, and any associated treatment chemicals and products.

Regenerated and reactivated media shall require a complete evaluation according to Annex X, and Section 7 including the full battery of tests for the base product type (as detailed in table 7.1), as well as specific analyses based on the regeneration/reactivation process and contaminants of concern from the water treatment facility.

...

Annex X
(normative)

Requirements for the Evaluation of Regenerated and Reactivated Process Media

Media that is taken from a water treatment facility and regenerated or reactivated requires a degree of evaluation beyond the normal evaluation criteria contained in Section 7. Minimum criteria for the evaluation of regenerated/reactivated media and associated facilities shall include:

1.) Quarterly unannounced inspections of each regeneration facility. Inspections shall include but are not necessarily limited to verification of the following:
   - Company is segregating and returning media to the same water treatment plant after regeneration, if this is a requirement of the water treatment plant.
   - Company is using containers dedicated to transporting drinking water media and has valid washout and container closure tickets available for inspection by the water treatment plant and auditors.
   - Equipment used in the regeneration of the media shall be dedicated to drinking water media regeneration and controls must be in place to prevent cross contamination of virgin material and regenerated media from spent media, waste and regeneration processes.

2.) Each lot of regenerated or reactivated media shall require analyses and evaluation according to Section 3.3.3.

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Section 7

7.2 Definitions

Reactivated process media – For the purposes of this standard, reactivated media shall mean any activated carbon that is taken from a water treatment plant and reactivated and transported back to the same or different water treatment facility.

Regenerated Process Media – For the purposes of this standard, regenerated media shall mean any media that is taken from a vessel in a water treatment plant and regenerated and transported back to the same or different water treatment facility.

7.3 General Requirements

7.3.4 Regenerated or reactivated media

Regenerated or reactivated process media shall be prepared and tested according to the requirements for the specific media type unless otherwise noted.

7.5.4 Exposure water

7.5.4.1 Adsorption Media

Adsorption media, with the exception of reactivated or regenerated media, shall be exposed in a pH 5……..

7.5.4.2 All other process media

All other process media, including reactivated or regenerated media, shall be exposed in reagent water….

Table 7.1 – Product-specific minimum test batteries for process media products

Product	Primary use	Analytes
activated alumina	adsorption	metals[1], nickel, and aluminum
aluminum silicates (e.g., zeolites)	filtration	metals[1], GC/MS (base neutral acid scans), and radionuclides
anthracite	filtration	metals[1], GC/MS (base neutral acid scans), and radionuclides
diatomaceous earth media	filtration	metals[1] and radionuclides
Garnet	filtration	metals[1], GC/MS (base neutral acid scans), and radionuclides
granular activated carbon (GAC)	adsorption	metals[1], GC/MS (base neutral acid scans), and radionuclides
Gravel	filtration	metals[1], GC/MS (base neutral acid scans), and radionuclides
Ilmenite	filtration	metals[1], GC/MS (base neutral acid scans), and radionuclides
ion exchange resins	ion exchange	residual monomer, other formulation dependent
oxidative media (e.g., manganese green sand)	oxidation	metals[1], GC/MS (base neutral acid scans), and radionuclides
Perlite	filtration	metals[1], GC/MS (base neutral acid scans), and radionuclides
powdered activated carbon (PAC)	adsorption	metals[1], GC/MS (base neutral acid scans), and radionuclides
Sand	filtration	metals[1], GC/MS (base neutral acid scans), and radionuclides
synthetic media	aeration, filtration	formulation dependent
Reactivated GAC or PAC	Adsorption	Metals[2], radionuclides, VOCs, Pesticides, GC/MS (base neutral acid scans) and other

		analyses identified via section 3.3.3.
Regenerated media	any	Metals[2], radionuclides, VOCs,Pesticides, product specific analyses from above, and other analyses identified via section 3.3.3.

[1] Metals = antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, selenium, thallium
[2] Metals = complete ICP/MS scan