

**ISO Central Secretariat**

1, ch. de la Voie-Creuse  
Case postale 56  
CH - 1211 Genève 20  
Switzerland

Telephone + 41 22 749 01 11  
Fax + 41 22 733 34 30  
E-mail [central@iso.org](mailto:central@iso.org)  
Web [www.iso.org](http://www.iso.org)

Organisation internationale de normalisation  
International Organization for Standardization  
Международная Организация по Стандартизации



Our ref. TMB / NWIP

**TO THE ISO MEMBER BODIES**

Date 2009-06-03

**New work item proposal – Standard for treated wastewater reuse implementation**

Dear Sir or Madam,

Please find attached a new work item proposal submitted by SII (Israel) concerning treated wastewater reuse implementation. It should be noted that, if the NWIP is approved, the work will be carried out in a Project Committee.

You are kindly invited to complete the ballot form ([Form 05](#)) which could be downloaded at [www.iso.org/forms](http://www.iso.org/forms) and send it, preferably in Word format, to the Secretariat of the ISO Technical Management Board at [tmb@iso.org](mailto:tmb@iso.org) before **3 September 2009**.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'MAS', with a long horizontal line extending to the right.

Michael A. Smith  
Secretary to the Technical Management Board

Encl: NWIP (Form 04)



NEW WORK ITEM PROPOSAL	
Date of presentation 30 Apr. 2009	Reference number (to be given by the Secretariat)
Proposer SII	ISO/TC                      / SC                      N
Secretariat SII	

A proposal for a new work item within the scope of an existing committee shall be submitted to the secretariat of that committee with a copy to the Central Secretariat and, in the case of a subcommittee, a copy to the secretariat of the parent technical committee. Proposals not within the scope of an existing committee shall be submitted to the secretariat of the ISO Technical Management Board.

The proposer of a new work item may be a member body of ISO, the secretariat itself, another technical committee or subcommittee, or organization in liaison, the Technical Management Board or one of the advisory groups, or the Secretary-General.

The proposal will be circulated to the P-members of the technical committee or subcommittee for voting, and to the O-members for information.

See overleaf for guidance on when to use this form.

**IMPORTANT NOTE: Proposals without adequate justification risk rejection or referral to originator.**

Guidelines for proposing and justifying a new work item are given overleaf.

**Proposal** (to be completed by the proposer)

<p><b>Title of proposal</b> (in the case of an amendment, revision or a new part of an existing document, show the reference number and current title)</p> <p>English title                      Standard for Treated Wastewater Reuse implementation.</p> <p>French title (if available)</p>
<p><b>Scope of proposed project</b></p> <p>Standardization in the field of projects management for the reuse of treated wastewater.</p> <p>The standard will deal with the requirements and processes involved in the development of health, environmentally viable and sustainable projects for the reuse of treated wastewater in agriculture, landscape and industry.</p> <p>The standard will state the conditions necessary for the design, construction, operation and maintenance of such projects without endangering or causing damage to the health of the people affected by the projects to the environment, to the soil, or to the crops and to the hydrological situation in the area.</p> <p>The standardization process shall refer to the complex management of all the internal and external elements that affect or can be affected by the implementation of such projects and will refer to other aspects such as:</p> <ul style="list-style-type: none"> <li>- wastewater treatment plants: design, building, operation and maintenance requirements,</li> <li>- treated wastewater distribution and storage systems: design, building, operation and maintenance requirements,</li> <li>- irrigation systems: design, operation and maintenance requirements,</li> <li>- wastewater quality suitability to soils and crops</li> <li>- wastewater quality demands, specially in hydrological sensible regions</li> </ul> <p>. This International guideline will deal with the management of projects, specifying requirements and procedures to integrate health and environmental aspects into design, operation and development processes of projects related to treated wastewater reuse and the products obtained from such projects.</p>
<p><b>Concerns known patented items</b> (see ISO/IEC Directives Part 1 for important guidance)</p> <p><input type="checkbox"/> Yes      <input checked="" type="checkbox"/> No      If "Yes", provide full information as annex</p>
<p><b>Envisaged publication type</b> (indicate one of the following, if possible)</p> <p><input checked="" type="checkbox"/> International Standard    <input type="checkbox"/> Technical Specification    <input type="checkbox"/> Publicly Available Specification    <input type="checkbox"/> Technical Report</p>

<p><b>Purpose and justification</b> (attach a separate page as annex, if necessary)</p> <p>The combination of severe water shortages, aquifers and surface water contamination, densely populated urban areas, intensive irrigated agriculture, and increased water use by growing populations and the rise in the standard of living, in most of the countries in the world, makes the reuse of treated wastewater one of the most important solutions to increase water potential and alleviate water scarcity by the development of a renewable water source.</p> <p>To prevent adverse impacts on public health, on the environment, on soils, on crops, and on waters sources, appropriate treated wastewater quality standards, reuse system standards and procedures have to be developed and implemented in the design, construction, operation and maintenance of treated wastewater reuse projects.</p> <p>Application of such standards and procedures to these projects will ensure a health and environmental friendly way to dispose of urban wastewater, thus, transforming a potential contamination nuisance to an important resource.</p> <p>The purpose of these standards is to establish the management procedures and directives that will assure that these projects will be managed in such a way that they comply with the minimum requirements for materials, design, construction and performance of systems using treated wastewater for the different application possibilities, like: non-limited agricultural irrigation, irrigation of public parks, irrigation of private house gardens, agricultural limited irrigation, recreational uses (with and without contact) industrial reclamation, aquifer recharge, etc..</p> <p>Therefore, these standards for the management of projects for the reuse of treated wastewater shall cover among other subjects:</p> <p>Standardization of the requirements for wastewater treatment and effluent quality according to the different possible applications.</p> <p>Standardization of the requirements and precautions that should be taken in order to reduce to a minimum the impact of these activities on the health of the population, on the environment (mainly on surface and underground water sources and on air quality), on soil, on agricultural crops, etc</p>	
<p><b>Target date for availability</b> (date by which publication is considered to be necessary)</p>	
<p><b>Proposed development track</b> <input type="checkbox"/> 1 (24 months) <input checked="" type="checkbox"/> 2 (36 months - default) <input type="checkbox"/> 3 (48 months)</p>	
<p><b>Relevant documents to be considered</b></p> <ol style="list-style-type: none"> <li>Guidelines for the Safe Use of Wastewater, Excreta and Greywater, Vol.II Wastewater Use in Agriculture. World Health Organization (2006), WHO 2006 ISBN 92 4 154686 7(set) ISBN 92 4 154683 2 (v.2)</li> <li>Guidelines for Water Reuse. U.S. Environmental Protection Agency (2004), WPA/625/R-04/108, Washington, D.C.</li> <li>Water Reuse: Issues, Technologies, and Applications. Asano, T., F. L. Burton, H. Leverenz, R. Tsuchihashi, and G. Tchobanoglous (2007), McGraw-Hill, New York ISBN 0071459278.</li> <li>Water Reuse: An International Survey of Current Practice, Issues and Needs. Jimenez, B. and T. Asano (Ed.) (2008), IWA Publishing, London, UK. ISBN: 9781843390893</li> <li>Water Reuse for Irrigation: Agriculture, Landscapes, and Turf Grass. Lazarova, V. and A. Bahri (Ed.) (2005), CRC Press, Boca Raton, FL ISBN-10: 1566706491</li> <li>Water Science and Technology. Editor in Chief: Gustaf Olsson, IWA Journal</li> <li>WHY IS WATER REUSE SO IMPORTANT THE EU? Drivers, Benefits and Trends.</li> <li>EUREAU European Union of National Associations of Water Suppliers and Waste Water Services. 127 rue Colonel Bourg, B-1140 Brussels</li> </ol>	
<p><b>Relationship of project to activities of other international bodies</b> ,ISO/TC 23/SC 18,ISO/TC 147,ISO/TC 224</p>	
<p><b>Liaison organizations</b> WHO,FAO,IWA</p>	<p><b>Need for coordination with:</b> <input type="checkbox"/> IEC <input type="checkbox"/> CEN <input type="checkbox"/> Other (please specify)</p>
<p><b>Preparatory work</b> (at a minimum an outline should be included with the proposal)</p> <p><input type="checkbox"/> A draft is attached <input checked="" type="checkbox"/> An outline is attached. It is possible to supply a draft by</p> <p>The proposer or the proposer's organization is prepared to undertake the preparatory work required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p><b>Proposed Project Leader</b> (name and address) Yaron Ben SII-The Standards Institution of Israel 42 Chaim Levanon St. Tel Aviv 69977 Israel tel:+972-3-6465315,fax:+972-3-6412762 Mobile:+972-52-3636477 E-mail:yaronbenari@sii.org.il</p>	<p><b>Name and signature of the Proposer</b> (include contact information) HELEN ATAROT SII-Director, Standardization Division 42 Chaim Levanon St. Tel Aviv 69977 Israel Tel: 972-3-6465180,Fax : 972- 3 - 6412762 E-mail : atarot@sii.org.il</p>

**Comments of the TC or SC Secretariat**

**Supplementary information relating to the proposal**

This proposal relates to a new ISO document;

This proposal relates to the amendment/revision of an existing ISO document;

This proposal relates to the adoption as an active project of an item currently registered as a Preliminary Work Item;

This proposal relates to the re-establishment of a cancelled project as an active project.

Other:

**Voting information**

The ballot associated with this proposal comprises a vote on:

Adoption of the proposal as a new project

Adoption of the associated draft as a committee draft (CD)

Adoption of the associated draft for submission for the enquiry vote (DIS or equivalent)

Other:

**Annex(es) are included with this proposal (give details)**

CONTENTS

Date of circulation	Closing date for voting	Signature of the TC or SC Secretary
2009-06-03	2009-09-03	

**Use this form to propose:**

- a) a new ISO document (including a new part to an existing document), or the amendment/revision of an existing ISO document;
- b) the establishment as an active project of a preliminary work item, or the re-establishment of a cancelled project;
- c) the change in the type of an existing document, e.g. conversion of a Technical Specification into an International Standard.

This form is not intended for use to propose an action following a systematic review - use ISO Form 21 for that purpose.

Proposals for correction (i.e. proposals for a Technical Corrigendum) should be submitted in writing directly to the secretariat concerned.

**Guidelines on the completion of a proposal for a new work item**

(see also the ISO/IEC Directives Part 1)

- a) **Title:** Indicate the subject of the proposed new work item.
- b) **Scope:** Give a clear indication of the coverage of the proposed new work item. Indicate, for example, if this is a proposal for a new document, or a proposed change (amendment/revision). It is often helpful to indicate what is not covered (exclusions).
- c) **Envisaged publication type:** Details of the types of ISO deliverable available are given in the ISO/IEC Directives, Part 1 and/or the associated ISO Supplement.
- d) **Purpose and justification:** Give details based on a critical study of the following elements wherever practicable. *Wherever possible reference should be made to information contained in the related TC Business Plan.*
  - 1) The specific aims and reason for the standardization activity, with particular emphasis on the aspects of standardization to be covered, the problems it is expected to solve or the difficulties it is intended to overcome.
  - 2) The main interests that might benefit from or be affected by the activity, such as industry, consumers, trade, governments, distributors.
  - 3) Feasibility of the activity: Are there factors that could hinder the successful establishment or global application of the standard?
  - 4) Timeliness of the standard to be produced: Is the technology reasonably stabilized? If not, how much time is likely to be available before advances in technology may render the proposed standard outdated? Is the proposed standard required as a basis for the future development of the technology in question?
  - 5) Urgency of the activity, considering the needs of other fields or organizations. Indicate target date and, when a series of standards is proposed, suggest priorities.
  - 6) The benefits to be gained by the implementation of the proposed standard; alternatively, the loss or disadvantage(s) if no standard is established within a reasonable time. Data such as product volume or value of trade should be included and quantified.
  - 7) If the standardization activity is, or is likely to be, the subject of regulations or to require the harmonization of existing regulations, this should be indicated.

If a series of new work items is proposed having a common purpose and justification, a common proposal may be drafted including all elements to be clarified and enumerating the titles and scopes of each individual item.

e) **Relevant documents and their effects on global relevancy:** List any known relevant documents (such as standards and regulations), regardless of their source. When the proposer considers that an existing well-established document may be acceptable as a standard (with or without amendment), indicate this with appropriate justification and attach a copy to the proposal.

f) **Cooperation and liaison:** List relevant organizations or bodies with which cooperation and liaison should exist.