QUESTIONNAIRE to All EPreSC Members on:

IAEA Safety Standard Series No. SF-1:
Fundamental Safety Principles

Introduction
At its 43rd Meeting, the Commission on Safety Standards (CSS) recommended that the Safety Standards Committees undertake a review of the IAEA Safety Standards Series No. SF-1, *Fundamental Safety Principles*¹, and report back at the 44th CSS meeting in November 2018. The IAEA Safety Standards Series No. SF-1 establishes the fundamental safety objective and principles of protection and safety which are further addressed in the Safety Requirements publications. It was published in 2006 in a joint sponsorship of 9 international organizations. The purpose of the review is to inform decisions on the need to revise SF-1 and on the aspects the revision should focus on.

In addition, upon request by the CSS, a consultancy meeting was held in February 2018 to review SF-1 and to identify whether there is a need to refine certain parts of the text with respect to:

- Retrospective attribution of radiation health effects to past radiation exposures;
- Prospective inference of health risks from radiation exposures; and
- Prediction of notional health effects for comparative purposes (e.g., use of collective dose).

The consultancy meeting developed specific proposals on how SF-1 can be improved to better reflect abovementioned concepts considering the findings of the UNSCEAR 2012 report². The results of the consultancy meeting and its recommendations were presented at the 43rd CSS meeting and shared with members of Safety Standards Committees before their meetings in June/July 2018. It is the discussion of these results that prompt CSS to initiate the overall review of SF-1. However, the findings from this consultancy are expected to provide good insights into a future revision of SF-1.

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¹ The publication is available at the following hyperlink: [https://www-pub.iaea.org/MTCD/publications/PDF/Pub1273_web.pdf](https://www-pub.iaea.org/MTCD/publications/PDF/Pub1273_web.pdf).
Thus, the purpose of this questionnaire is to gather feedback from EPReSC Members on the usefulness, strengths and weaknesses of SF-1 as well as of their views on the needs for SF-1 revision and on aspects in SF-1 that can be improved. The responses to the questionnaire will be analyzed and documented in a report to be discussed and agreed at the meeting of EPReSC in late October this year for submission to the CSS at its 44th meeting.

**Expectations from EPReSC Members**

It is expected that EPReSC members will review thoroughly SF-1 and document their findings in the response to this Questionnaire. The review may take account of the finding of the UNSCEAR 2012 report but should extend beyond, for example, in considering the consistency with recently published safety requirements publications and on lessons learned for their use since publication. It is also expected that EPReSC members will give attention particularly on SF-1 suitability, usefulness and weaknesses from nuclear or radiological emergency preparedness and response perspective.

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*Please forward completed Questionnaire to: Ramon de la Vega, EPReSC Scientific Secretary, IAEA Incident and Emergency Centre, e-mail: R.I.De-La-Vega@iaea.org*

Please submit the completed Questionnaire by **Monday, 10 September 2018**
1. GENERAL INFORMATION ON RESPONDER(S)

1.1 EPReSC Member(s): ______________________________________________________

1.2 Member State Represented: _______________________________________________

2. GENERAL OVERVIEW OF SF-1

2.1 Do you use and/or implement SF-1 at the national level?
☐ Yes
   Please specify in what context you apply SF-1 at the national level:

☐ No
   Please specify if there is any specific reason not to apply SF-1 at the national level:

2.2 Do you find SF-1 useful?
☐ Very useful
☐ Useful
☐ Not very useful
☐ Not useful at all

   In case of ‘Not very useful’ or ‘Not useful at all’ answer, please specify why:

2.3 Do you find SF-1 applicable for the whole lifetime of facilities and activities present in your country?
☐ Yes
☐ Partially
☐ Not

   In case of ‘Partially’ or ‘Not’ answer, please specify why:

2.3 Do you find SF-1 applicable for any exposure situation?
☐ Yes
☐ Partially
☐ Not

   In case of ‘Partially’ or ‘Not’ answer, please specify why:
2.4 Do you find the language and terminology used of SF-1 clear and unambiguous?

☐ Yes
☐ Partially
☐ Not

_In case of ‘Partially’ or ‘Not’ answer, please specify why:_

2.5 What do you consider are the main strengths of SF-1? _Please try to be specific_

2.6 What do you consider are the main failures or weaknesses of SF-1? _Please try to be specific_

2.7 Can you share any views on how can SF-1 be improved to be more applicable and useful to your country?

2.8 Please provide any other general comment on SF-1:

_e.g., difficult to understand, applicability for non-nuclear countries is questionable, too detailed and practical principles or associated provisions which may not be appropriate, too specific principles based on specific facilities, inconsistency with recent safety standards such as GSR Part 3 and Part 7, inconsistency with the findings from UNSCEAR 2012 Report etc._?

3. THE STRUCTURE AND CONTENTS OF SF-1

3.1 General Overview

3.1.1 Do you find the structure of SF-1 good for your needs?

☐ Very good
☐ Good
☐ Not very good
☐ Not good at all

_In case of ‘Not very good’ or ‘Not good at all’ answer, please specify why:_
3.1.2 If you could change the structure of SF-1, what change would you introduce to improve its usefulness?

3.1.3 Do you find the content of SF-1, in general, good for your needs?
☐ Very good
☐ Good
☐ Not very good
☐ Not good at all

*In case of ‘Not very good’ or ‘Not good at all’ answer, please specify why:

3.1.4 If you could change the contents of SF-1, what change would you introduce to improve its usefulness?

3.1.5 Do you find the ten fundamental safety principles contained in SF-1 adequate and sufficient?
☐ Yes
☐ No

*In case of ‘No’ answer, please specify in your opinion what fundamental safety principles are missing or are not adequate:

3.1.6 Do you find the ten fundamental safety principles contained in SF-1 consistent in terms of the level of detail they address?
☐ Yes
☐ No

3.1.7 Please provide any other comment on the Structure and Content of SF-1:
3.2 The Safety Objective in SF-1

3.2.1 Do you find the Safety Objective well formulated?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all
*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*

3.2.2 Do you find associated provisions to the Safety Objective (paras 2.1 to 2.3) at adequate detail?
☐ Yes
☐ No
*Please specify what elements you consider as too detailed or too generic for SF-1 or elements you consider are missing:*

3.2.3 Do you find associated provisions to the Safety Objective (paras 2.1 to 2.3) useful?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all
*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*

3.2.4 If you can change the contents of the associated provisions to the Safety Objective (paras 2.1 to 2.3), please elaborate what would you change:

3.3 Principle 1: Responsibility for safety

3.3.1 Do you find the Principle 1 adequate and well formulated?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all
*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*
3.3.2 Do you find associated provisions to the Principle 1 (paras 3.3 to 3.7) at adequate detail?
☐ Yes
☐ No
*Please specify what elements you consider as too detailed or too generic for SF-1 or elements you consider are missing:*

3.3.3 Do you find associated provisions to the Principle 1 (paras 3.3 to 3.7) useful?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all
*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*

3.3.4 If you can change the contents of the associated provisions to the Principle 1 (paras 3.3 to 3.7), please elaborate what would you change:

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3.4 **Principle 2: Role of government**

3.4.1 Do you find the Principle 2 adequate and well formulated?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all
*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*

3.4.2 Do you find associated provisions to the Principle 2 (paras 3.8 to 3.11) at adequate detail?
☐ Yes
☐ No
*Please specify what elements you consider as too detailed or too generic for SF-1 or elements you consider are missing:***
3.4.3 Do you find associated provisions to the Principle 2 (paras 3.8 to 3.11) useful?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all
In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:

3.4.4 If you can change the contents of the associated provisions to the Principle 2 (paras 3.8 to 3.11), please elaborate what would you change:

3.5 **Principle 3: Leadership and management for safety**

3.5.1 Do you find the Principle 3 adequate and well formulated?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all
In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:

3.5.2 Do you find associated provisions to the Principle 3 (paras 3.12 to 3.17) at adequate detail?
☐ Yes
☐ No
Please specify what elements you consider as too detailed or too generic for SF-1 or elements you consider are missing:

3.5.3 Do you find associated provisions to the Principle 3 (paras 3.12 to 3.17) useful?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all
In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:
3.5.4 If you can change the contents of the associated provisions to the Principle 3 (paras 3.12 to 3.17), please elaborate what would you change:

3.6 **Principle 4: Justification of facilities and activities**

3.6.1 Do you find the Principle 4 adequate and well formulated?

- Fully
- Fairly well
- Somewhat
- Not at all

*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*

3.6.2 Do you find associated provisions to the Principle 4 (paras 3.18 to 3.20) at adequate detail?

- Yes
- No

*Please specify what elements you consider as too detailed or too generic for SF-1 or elements you consider are missing:*

3.6.3 Do you find associated provisions to the Principle 4 (paras 3.18 to 3.20) useful?

- Fully
- Fairly well
- Somewhat
- Not at all

*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*

3.6.4 If you can change the contents of the associated provisions to the Principle 4 (paras 3.18 to 3.20), please elaborate what would you change:
3.7 **Principle 5: Optimization of protection**

3.7.1 Do you find the Principle 5 adequate and well formulated?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all

*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*

3.7.2 Do you find associated provisions to the Principle 5 (paras 3.21 to 3.24) at adequate detail?
☐ Yes
☐ No

*Please specify what elements you consider as too detailed or too generic for SF-I or elements you consider are missing:*

3.7.3 Do you find associated provisions to the Principle 5 (paras 3.21 to 3.24) useful?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all

*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*

3.7.4 If you can change the contents of the associated provisions to the Principle 5 (paras 3.21 to 3.24), please elaborate what would you change:

3.8 **Principle 6: Limitation of risks to individuals**

3.8.1 Do you find the Principle 6 adequate and well formulated?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all

*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*

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3.8.2 Do you find associated provisions to the Principle 6 (paras 3.25 to 3.26) at adequate detail?

☐ Yes
☐ No

*Please specify what elements you consider as too detailed or too generic for SF-1 or elements you consider are missing:*

3.8.3 Do you find associated provisions to the Principle 6 (paras 3.25 to 3.26) useful?

☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all

*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*

3.8.4 If you can change the contents of the associated provisions to the Principle 6 (paras 3.25 to 3.26), please elaborate what would you change:

3.9 **Principle 7: Protection of present and future generations**

3.9.1 Do you find the Principle 7 adequate and well formulated?

☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all

*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*

3.9.2 Do you find associated provisions to the Principle 7 (paras 3.27 to 3.29) at adequate detail?

☐ Yes
☐ No

*Please specify what elements you consider as too detailed or too generic for SF-1 or elements you consider are missing:*
3.9.3 Do you find associated provisions to the Principle 7 (paras 3.27 to 3.29) useful?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all

In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:

3.9.4 If you can change the contents of the associated provisions to the Principle 7 (paras 3.27 to 3.29), please elaborate what would you change:

3.10 Principle 8: Prevention of accidents

3.10.1 Do you find the Principle 8 adequate and well formulated?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all

In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:

3.10.2 Do you find associated provisions to the Principle 8 (paras 3.30 to 3.33) at adequate detail?
☐ Yes
☐ No

Please specify what elements you consider as too detailed or too generic for SF-1 or elements you consider are missing:

3.10.3 Do you find associated provisions to the Principle 8 (paras 3.30 to 3.33) useful?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all

In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:
3.10.4 If you can change the contents of the associated provisions to the Principle 8 (paras 3.30 to 3.33), please elaborate what would you change:

### 3.11 Principle 9: Emergency preparedness and response

#### 3.11.1 Do you find the Principle 9 adequate and well formulated?
- ☐ Fully
- ☐ Fairly well
- ☐ Somewhat
- ☐ Not at all

*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*

#### 3.11.2 Do you find associated provisions to the Principle 9 (paras 3.34 to 3.38) at adequate detail?
- ☐ Yes
- ☐ No

*Please specify what elements you consider as too detailed or too generic for SF-I or elements you consider are missing:*

#### 3.11.3 Do you find associated provisions to the Principle 9 (paras 3.34 to 3.38) useful?
- ☐ Fully
- ☐ Fairly well
- ☐ Somewhat
- ☐ Not at all

*In case of ‘Somewhat’ or ‘Not at all’ answer, please specify why:*

#### 3.11.4 If you can change the contents of the associated provisions to the Principle 9 (paras 3.34 to 3.38), please elaborate what would you change:
3.12 Principle 10: Protective actions to reduce existing or unregulated radiation risks

3.12.1 Do you find the Principle 10 adequate and well formulated?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all
In case of 'Somewhat' or 'Not at all' answer, please specify why:

3.12.2 Do you find associated provisions to the Principle 10 (paras 3.39 to 3.40) at adequate detail?
☐ Yes
☐ No
Please specify what elements you consider as too detailed or too generic for SF-1 or elements you consider are missing:

3.12.3 Do you find associated provisions to the Principle 10 (paras 3.39 to 3.40) useful?
☐ Fully
☐ Fairly well
☐ Somewhat
☐ Not at all
In case of 'Somewhat' or 'Not at all' answer, please specify why:

3.12.4 If you can change the contents of the associated provisions to the Principle 10 (paras 3.39 to 3.40), please elaborate what would you change:
4. EPESC MEMBER VIEWS AND EXPECTATIONS

4.1 Please specify your view from the review of SF-1:
☐ SF-1 needs to be revised

Please specify your expectations from the revision of SF-1:

☐ SF-1 does not require revision
☐ No expectation

Questionnaire completed: (signature/date)