

RISK ASSESSMENT PACK

Utilities - Water, Air, Steam and Lighting

Water, ice, steam, compressed air, other gases, ventilation and lighting: the utilities that touch product, and the sampling and testing logic behind each.

What you get

- **The risk assessment workbook (Excel)**
Fully editable, with drop-down lists, automatic inherent and residual risk scoring, colour coded risk bands, a populated worked example you can adapt, and a built in action tracker.
- **The governing procedure (Word)**
The SOP the risk assessment sits under, written to the same standard, ready to adopt with your company name and approver.
- **A step by step completion guide (Word)**
Purpose and clauses, what to gather first, the scoring method worked through with a real example, the register column by column, verification and review, and the mistakes auditors find most often.
- **A read me first sheet (Word)**
What is in the pack, who it is for, what you must edit before use, and how to get help.

Standards this pack supports

ISO 22000:2018 cl. 8.2.4 c), ISO 22002-1:2025 cl. 6 and ISO 22002-100:2025 cl. 6, FSSC 22000 V7 cl. 2.5.1 (a) and 2.5.12



The actual risk register in this pack, shown at reduced size.

Once off payment. No subscription.
Editable Word and Excel. Instant download.

R690 | USD 34

Inside the step by step guide

Every pack includes a written guide that walks a quality manager through the scoring method, the register column by column, residual risk, verification and review, and the mistakes auditors find most often on this subject. This is one page of it.

LOGO	[COMPANY NAME] Food Safety Management System	Doc No: RA09	Page 1 of 6
Subject: Utilities - Water, Air, Steam and Lighting - How to Complete This Risk Assessment			
Compiled by: ASC Food Safety	Approved by: [YOUR APPROVER]	Date: 01 Sep 2026	Rev no: 01

HOW TO COMPLETE THIS RISK ASSESSMENT

1. PURPOSE

This guide explains how to complete the RA09 Utilities - Water, Air, Steam and Lighting Risk Assessment supplied with it. It assesses the risks carried by the utilities that touch food, food contact surfaces or packaging: water, ice, steam, ventilation air, compressed air and other gases, lighting, and the chemicals dosed into boilers and refrigeration systems.

The pack contains four files: the risk assessment workbook, the governing procedure, this guide, and a Read Me First file. Together they give you the assessment, the method behind it and the procedure that the controls in the register refer to.

Completed and kept up to date, the risk assessment provides evidence against: ISO 22002-1:2025 clause 6.1 to 6.6 (general, water, ice and steam, air and ventilation, compressed air and other gases, light, and boiler chemicals); ISO 22002-100:2025 clause 6.1 to 6.5; ISO 22000:2018 clause 8.2, and in particular clause 8.2.4 c) supplies of air, water, energy and other utilities; FSSC 22000 Version 7.0 clause 2.5.1 (a) where an external laboratory is used to analyse water, air or gas, and clause 2.5.12 PRP verification.

This is a prerequisite programme risk assessment. It is not a hazard analysis. It decides how much control the prerequisite programme needs and shows that the decision was made on evidence. Its output is an input to your hazard analysis under ISO 22000:2018 clause 8.5.2 and to management review under clause 9.3.

2. BEFORE YOU START

Do not start in the workbook. Collect the following first, because every score you enter has to be defensible from it:

- a schematic of the water, steam, compressed air and gas systems showing every point of use and every sample point
- the water source, the treatment applied, the storage tanks and any non potable system, with the colour coding and the back-flow protection
- twelve months of results: potable water microbiology and chemistry, compressed air to ISO 8573-1, gas certificates of analysis, and any legionella sampling
- the filter schedule for ventilation, compressed air and gas, with grades and change records
- the lighting survey with lux levels by area, and the glass and hard plastic register entries for light fittings
- the boiler chemical list with the food grade or regulatory approval for each additive, and the refrigerant and heat transfer fluid inventory

The assessment is led by the QA Manager or Food Safety Team Leader with the Engineering Manager, who owns the plant and the sample points, the Hygiene Manager, who uses the water for cleaning, and the Production Manager, who knows which utilities touch product. The water

Inside the accompanying procedure

The pack also carries the governing procedure the risk assessment sits under, written to the same house standard and ready to adopt with your company name and approver. This is its first page.

RA09 Utilities - Water, Air, Steam and Lighting

Risk Assessment Pack - Read Me First

Document set: RA09 | **Revision:** 01 | **Date:** 01 Sep 2026 | **Compiled by:** ASC Food Safety Consultants

1. What is in this pack

File	What it is
RA09 Utilities - Water, Air, Steam and Lighting Risk Assessment.xlsx	The risk assessment workbook: a How to Use sheet, the risk register with formula driven inherent and residual scores, the 5 x 5 matrix and live heat maps, and an action tracker.
RA09 Utilities - Water, Air, Steam and Lighting Procedure.docx	The governing procedure. It is the document the controls in the register refer to, and it is written so that it can be adopted as your own site procedure.
RA09 Utilities - Water, Air, Steam and Lighting - How to Complete This Risk Assessment.docx	A working guide: the scoring method, a worked example taken from the register in this pack, a column by column walk through, and the mistakes auditors find most often on this subject.
RA09 Utilities - Water, Air, Steam and Lighting - Read Me First.docx	This file.

The pack is self contained. Nothing in it refers to a document you have to buy separately. Where the procedure or the register mentions another document, it is named generically, for example "your master cleaning schedule", so that you can read it as the equivalent document in your own management system.

2. Who this pack is for

Food manufacturers, packers, processors and storage and distribution sites working to FSSC 22000 Version 7.0, ISO 22000:2018 and ISO 22002-1:2025 or ISO 22002-100:2025, BRCGS Issue 9, IFS Food Version 8 and SQF Edition 9, and any site that has to show a certification body, a customer or a second party auditor that this prerequisite programme is risk based.

It is written for a competent quality or technical manager. You do not need to be a specialist in utilities, but you do need access to your own site information: the guide lists exactly what to collect before you start.

3. What this pack covers

The risk assessment in this pack assesses the risks carried by the utilities that touch food, food contact surfaces or packaging: water, ice, steam, ventilation air, compressed air and other gases, lighting, and the chemicals dosed into boilers and refrigeration systems.

Completed and maintained, it provides evidence against:

- ISO 22002-1:2025 clause 6.1 to 6.6 (general, water, ice and steam, air and ventilation, compressed air and other gases, light, and boiler chemicals).