



ExMC/264/R
August 2005

**INTERNATIONAL ELECTROTECHNICAL COMMISSION SCHEME
FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR USE
IN EXPLOSIVE ATMOSPHERES (IECEx SCHEME)**

**Title: Re-assessment Report for continued acceptance of SP Sweden as Ex
Certification Body.**

To: Members of the IECEx Management Committee, ExMC

Introduction

This document contains the IECEx Re-assessment Report for SP of Sweden as an Accepted ExCB in accordance with the 5-year re-assessment plan for the surveillance and monitoring of bodies under the IECEx Scheme.

This Report is issued for endorsement at the 2005 ExMC Buxton Meeting.

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IECEx Secretariat

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IECEx RE-ASSESSMENT REPORT FORM

For ExCB

(Continued Acceptance as Ex Certification Body)

1. OBJECT AND FIELD OF APPLICATION

1.1 *Country:*

SWEDEN

1.2 *ExCB under Re-Assessment*

SP Swedish National Testing and Research Institute

1.3 *Members of the Assessment Team*

Jim Munro (Lead Assessor)
Heinz Berger (Assessor)

1.4 *Place and Date of Assessment*

Brinellgatan 4
501 15 Borås
SWEDEN

6 – 7 September 2004

1.5 *Assessment References*

Documents:

- i) IECEx 02 Second Edition
- ii) IECEx Operational Document OD/009/V1
- iii) ISO/IEC Guide 65 1996

1.6 *Current Scope of Acceptance*

Product Category	Standard
General Requirements	IEC 60079-0
Flameproof enclosures "d"	IEC 60079-1
Pressurisation "p"	IEC 60079-2
Powder filling "p"	IEC 60079-5
Oil-immersion "o"	IEC 60079-6
Increased safety "e"	IEC 60079-7
Intrinsic safety "i"	IEC 60079-11
Type of protection "n"	IEC 60079-15
Encapsulation "m"	IEC 60079-18
Apparatus for combustible dusts	IEC 61241-1-1

1.7 *Any Changes in Scope*

Product Category	Standard
Intrinsically Safe Systems	IEC 60079-25
Group II Zone "0" Electrical Apparatus	IEC 60079-26
Field bus Intrinsically Safety concept (FISCO)	IEC 60079-27
Combustible dust - General requirements	IEC 61241-0
Combustible dust - Protection by Enclosures "tD"	IEC 61241-1
Combustible dust – Type of protection "pD"	IEC 61241-4
Combustible dust – Type of protection "mD"	IEC 61241-18

1.8 *ExCB Persons Interviewed*

Name	Position
Lennart Aronsson	Responsible Officer for Certification
Peter Bremer	Certification Officer

1.9 *Any changes in Legal Status of the ExCB*

No change. SP is a limited company fully owned by the Swedish State, Ministry of Industry and Commerce.

1.10 *Associated Testing Laboratories*

SP is operating its own ExTL. No subcontracting.

ExTL and ExCB are organisationally separated in different departments within SP. The ExCB has its own board. The quality management system and the operational procedures provide a sufficient separation of the testing and certification activities.

1.11 *National Marks and Certificates*

Marks and certificates according to the ATEX Directive 94/9/EC.

1.12 *Financial Support*

SP is self-funded under a not for profit concept.

1.13 *Standards Accepted*

Product Category	
General Requirements	IEC 60079-0
Flameproof enclosures "d"	IEC 60079-1
Pressurisation "p"	IEC 60079-2
Powder filling "p"	IEC 60079-5
Oil-immersion "o"	IEC 60079-6
Increased safety "e"	IEC 60079-7
Intrinsic safety "i"	IEC 60079-11
Type of protection "n"	IEC 60079-15
Encapsulation "m"	IEC 60079-18



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Apparatus for combustible dusts	IEC 61241-1-1
Intrinsically Safe Systems	IEC 60079-25
Group II Zone "0" Electrical Apparatus	IEC 60079-26
Field bus Intrinsically Safety concept (FISCO)	IEC 60079-27 (TS)
Combustible dust - General requirements	IEC 61241-0
Combustible dust - Protection by Enclosures "tD"	IEC 61241-1
Combustible dust – Type of protection "pD"	IEC 61241-4
Combustible dust – Type of protection "mD"	IEC 61241-18

Note: IEC 60079-27 is a Technical Specification, not a Standard. It is recommended that the IECEx ExMC, on the appropriateness of including a Technical Specification, take a decision.

1.14 *National Differences to IEC Standards*

As declared by the Swedish IECEx member Body and detailed in the IECEx Bulletin.

2. ORGANISATION

2.1 *Names, Titles and Experience of the Senior Executives*

Name	Title
Claes Bankvall	President
Hans Andersson	Vice President and Technical Director
Jan-Olof Johansson	Vice President and Marketing Director
Lennart Månsson	Certification Manager

2.2 *Name, Title and Experience of the Quality Management Representative*

Name	Title	Experience
Lennart Månsson	Certification Manager	> 10 years
Jan-Olof Johansson	Management Representative for Quality	> 10 years
Maria Wiland	Quality Manager of Certification	> 2 years

2.3 *Name and Title of Nominated Principal Contact*

Name	Title	Experience
Peter Bremer	Certification Officer, assessor expert	> 15 years

2.4 *Names and Titles of Signatories for Certification*

Name	Title	Experience
Lennart Månsson	Certification Manager	> 10 years
Åke Månsson	Certification Officer	> 20 years
Lennart Aronsson	Lead Assessor	> 7 years



2.5 Other Employees in ExCB activity

Name	Title	Comments
Lennart Aronsson	Lead Assessor	> 7 years
Åke Månsson	Certification Officer	> 20 years
Peter Bremer	Certification Officer, assessor expert	> 20 years

The ExCB has a number (> 10) of lead assessors and assessors for Quality System Certification according to ISO 9000.

2.6 Organisational Structure (Including Changes since Last Assessment)

The organisation is appropriately structured and satisfies the requirements of ISO/IEC Guide 65, confirmed by the Swedish accreditation body SWEDAC (see Annex 1 and Annex 2 for organizational charts).

3. RESOURCES

At the moment two (2) persons are involved in Ex Certification. Two (2) persons are involved in Ex Quality Assessments supported by technical experts.

The ExCB facilities are a small entity of a large organisation and it is apparent that both physical and human resources may be expanded or contracted as necessary to suit the needs.

4. COMMITTEES

The department Certification has its own board (separate from SP's board) with six representatives:

- Four representatives from industry
- One representative from SP's top management
- Certification Manager

An expert group known as SPAREX committee, which functions as the certification board expert group for Ex equipment, supports the aforementioned board. A Certification Officer convenes this board, where another Certification Officer is the secretary of SPAREX.

5. CERTIFICATION OPERATIONS

5.1 National Approval/Certification Methods

SP is involved in European Ex activities since 1994 and became a Notified Body (NB) in 1997 under NB number 0402 which is for the ATEX directive.

Swedish Accreditation Body SWEDAC performed a surveillance audit in 1999 and an extension of scope was given to SP in 2004.



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Certification of Quality Management Systems of Ex manufacturers, for National Approval, is performed according to SP certification rules SPCR 079 based on the relevant modules in the ATEX Directive 94/9/EC.

Certification of Quality Management Systems of Ex manufacturers, IECEx, is performed according to SP certification rules SPCR 154 based on the requirements in IECEx 02.

For each SP certification rules, there is a suitable and well-defined work instruction (IP-SPCR 079 and IP-SPCR 154 respectively). IP-SPCR for IECEx services implements the relevant IECEx ODs (e.g. OD 009).

5.2 Certification Policy

According to Certification Quality Manual, Chapter 1, document M1.

Documented policy covering conditions and procedure for granting, maintaining, extending, suspending and withdrawing certification are contained in the Quality Manual.

5.3 Staff Work Instructions

Staff work instructions are available to selected personnel by the SP Intranet.

5.4 Application for Certification

Up-to-date documents for guidance to applicants are provided in booklets relevant to the certification involved. These documents include a description of the evaluation and certification procedures including the rights and duties of applicants.

Policies and procedures does not discriminate applications.

6. STATISTICS

IECEx Certificates of Conformity, endorsed QARs or ExTRs has not yet been issued. However, SP issued ATEX certificates. The number of performed certifications revealed a sufficient number of product and quality system certifications for the areas within the scope, to demonstrate a thorough understanding of the Ex technology.

Ninety-five (95) ATEX certificates were issued during the past 2 years

7. NATIONAL ACCREDITATION

The Swedish Accreditation Body SWEDAC according to Annex 3 accredits the SP ExCB.

8. LIABILITY INSURANCE

SP is covered by insurance contract issued by the company "if Skadeförsäkring AB".

9. QUALITY MANUAL

The quality manual used by the ExCB is the SP Corporate manual together with the department (Certification) manual, which is well structured to the business of certification.



It includes a well-defined policy, which has emphasis on the needs of the client and management of a system following EN 45011 (corresponding to ISO/IEC Guide 65). The Management System provides a clear differentiation between the operating procedures for testing and certification, under the requirements of IECEx and that conducted as part of national accreditation.

10. INTERNAL AUDIT AND PERIODIC REVIEW

Internal audits are performed according to SP Quality Manual SP-QD 5.2. The audits are performed on an annual schedule.

11. COMPLAINTS

Complaints procedure is according to SP Quality Manual, section SP-QD 5.1. For certification purposes work instruction IP 6.1 applies.

12. APPEALS

See Chapter 4 "Committees".

13. WITHDRAWAL AND CANCELLATION OF CERTIFICATES

Withdrawal and Cancellation of Certificates is handled according to work instruction IP 7.2.

In the case of IECEx CoCs withdrawals and cancellations of certificates are under the authority of the Certification Manager. The client may initiate the complaints mechanism if in disagreement. The procedures are in accordance with IECEx 02 and OD 009.

14. REVIEW OF ISSUED CERTIFICATES AND EXTRs

No IECEx TRs and CoCs were issued up to the date of re-assessment.

15. FINDINGS FROM THE ASSESSMENT

A couple of minor issues were found during the assessment and reported to SP. These were all satisfactorily resolved. A record of these issues, including subsequent actions, has been provided to the IECEx Secretariat.

16. RECOMMENDATIONS

Based on the results gained during the Re-Assessment performed during September 6 – 7, 2004, the assessment team recommends continuation of acceptance of SP as IECEx Certification Body under the scope of standards listed in Clause 1.13 of this report.

LIST OF ANNEXES

- Annex 1: Organizational Chart of SP
- Annex 2: Organizational Chart of Certification Department



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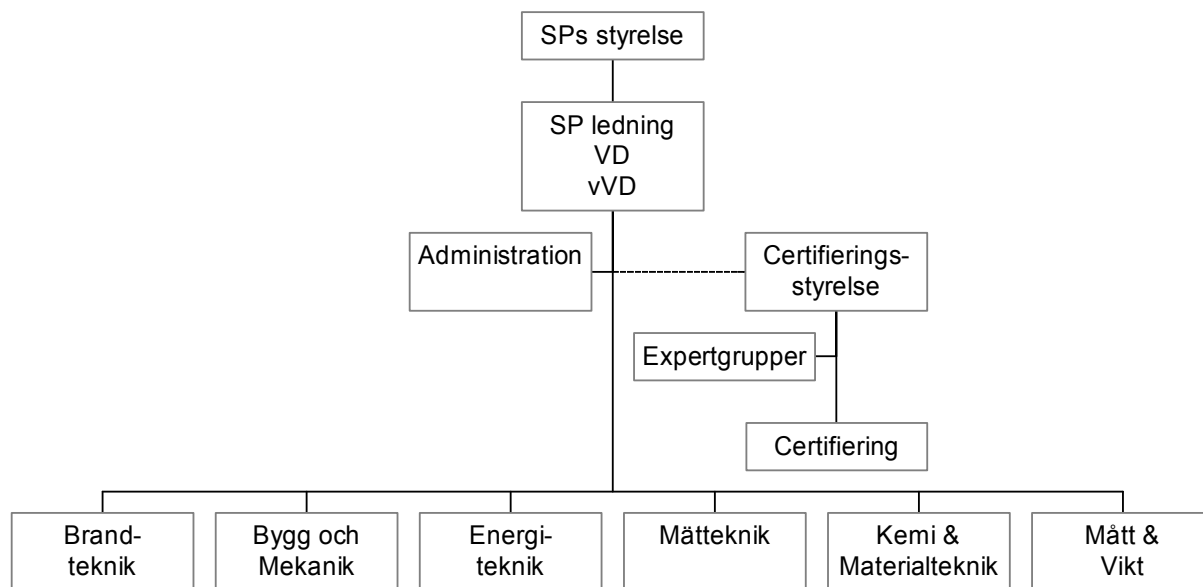
Annex 3: Letter SWEDAC on compliance to ISO Guide 65 and ATEX Directive

Jim Munro
Lead Assessor

Heinz Berger
Expert assessor

14 January 2005

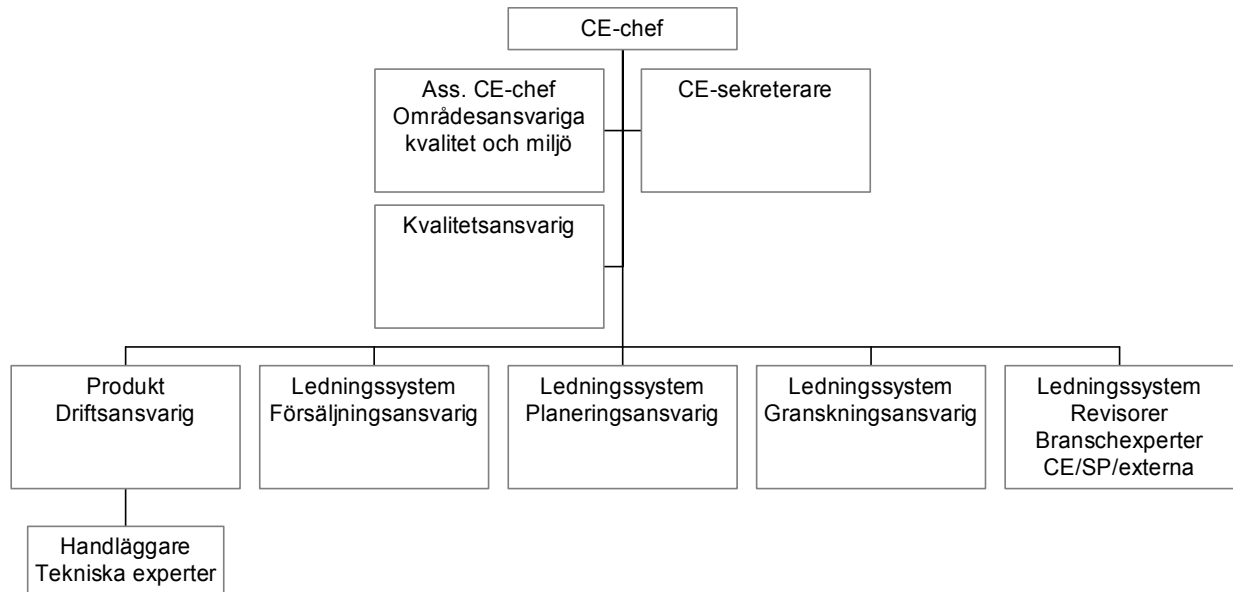
1. Organisation, SP



Explanations

SPs styrelse:	The board of SP	(9 persons)
SP-ledning:	Top management of SP.	
VD	President	Claes Bankvall
vVD	Vice president(s)	Hans Andersson, Technical Director Jan-Olof Johansson, Marketing Director
Administration	Administration	
Certifieringsstyrelse:	Board of the certification department	(6 persons)
Expertgrupper	Expert Groups	Example: "SPAREX"
Certifiering	Certification department	
Brandteknik, Bygg och Mekanik etc	6 Technical Departments	

Organisation of the Certification Department



Explanations

CE-chef	Manager of certification department	Lennart Månsson
Ass CE-chef Områdesansvariga kvalitet och miljö	Assistant Manager of certification department	Ingrid Isaksson
	Area responsible, area Quality Management System Assessments (e.g ISO 9001, QS 9000 etc)	Mats Olsson
	Area responsible, area Environmental Management System Assessments (e.g ISO 14001, EMAS etc)	Eddie Åkesson
Kvalitetsansvarig	Quality manager (certification department)	Maria Wiland
CE-sekreterare	1st Secretary	Helena Larsson
Produkt, driftansvarig	Responsible, product certification	Lennart Aronsson
Ledningssystem, försäljningsansvarig	Responsible for marketing, management system assessments	Karin Nilsson
Ledningssystem, planeringssansvarig	Responsible for planning, management system assessments	Petra Rosén
Ledningssystem, granskningssansvarig	Responsible for examination and decisions	Maria Karlsson
Ledningssystem, Revisorer, Branschexperter, CE/SP/Externa	Management system auditors, bransch specialists	
	Certification department employees	
	SP employees	
Handläggare, tekniska experter	External Consultants	
	Administrators, technical experts.	

Division of Certification
Lars Olsson
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To whom it may concern

Explanation of the accreditation and notification status for SP Swedish National Testing and Research Institute (SP).

SP is accredited by SWEDAC as a certification body for products. As a certification body SP has to meet the requirements in SWEDAC's regulations STAFS 1999:12. This implies, among other things, that SP fulfils the requirements in EN 45011:1998 for the products within the accreditation scope. EN 45011:1998 is equivalent to ISO/IEC Guide 65:1996.

SP is notified by SWEDAC to the European Commission for the EC Directive 94/9/EC concerning equipment and protective systems intended for use in potentially explosive atmospheres. As a notified body SP has to meet the requirements in the SWEDAC's regulations STAFS 2002:6. This implies, among other things, that SP fulfils the relevant parts of EN 45011:1998 (ISO/IEC Guide 65:1996).

In addition to the above SP is also accredited as a laboratory, as a certification body for management systems and as an inspection body. SP is also notified for other EC Directives. The accreditation and notification scopes are defined in the decision for the respective area. Copies of the decisions are available from SP or from SWEDAC.

Yours sincerely,



Lars Olsson
Technical Officer

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