



Australian Government
Department of Defence
Strategic Policy and Intelligence

AUSTRALIAN COMMUNICATIONS SECURITY INSTRUCTION

ACSI 77C

AUSTRALIAN EMANATION SECURITY PROGRAM (ESP)

AUSTRALIAN COMMUNICATIONS SECURITY INSTRUCTION

ACSI 77C

AUSTRALIAN EMANATION SECURITY
PROGRAM (ESP)

© Commonwealth of Australia 2018

This document is the property of the Australian Government. It should be handled in accordance with agreed security regulations for its classification. Attention is drawn to those sections of the *Crimes Act 1914* and the *Defence Act 1903* relating to the protection of classified information.

Cyber and Information Security Division
Australian Signals Directorate
PO Box 5076
KINGSTON ACT 2604
Telephone: 1300 CYBER1 (1300 292 371)
Email: asd.assist@defence.gov.au

TABLE OF CONTENTS

SECTION 1 – INTRODUCTION.....	5
Purpose	5
Scope.....	5
Amendments and changes	5
Handling.....	5
Status	6
SECTION 2 – EMANATION SECURITY PROGRAM.....	7
ESP categories.....	7
Agency responsibilities	8
SECTION 3 – PROGRAM ADMINISTRATION.....	11
Administrator’s obligations.....	11
SECTION 4 – SECURITY	13
Classification and release of material.....	13
Transmission of classified material	13
SECTION 5 – CATEGORY A ENDORSEMENT	15
TEMPEST product development, design, manufacture and assembly.....	15
SECTION 6 – CATEGORY B ENDORSEMENT	17
TEMPEST testing services	17
Testing sub-category levels	17
Facility pre-requisites.....	18
TEMPEST tester qualifications	19
Endorsement process.....	20
SECTION 7 – CATEGORY C ENDORSEMENT	23
Installation planning for high-risk and military sites	23
Category objective	23

APPENDIX A	27
Acceptance of conditions for the release of communications security information for Category A endorsement.....	27
APPENDIX B	29
Acceptance of conditions for the release of Communications Security Information for Category B endorsement.....	29
APPENDIX C	31
Acceptance of conditions for the release of communications security information for Category C endorsement.....	31
APPENDIX D - FURTHER INFORMATION	33
List of publications.....	33
Abbreviations.....	34

SECTION 1

INTRODUCTION

Australian Communications-Electronic Security Instruction, ACSI 77 C is an Unclassified, Non-Registered publication issued under the authority of the Director, Australian Signals Directorate (ASD). It is effective from the date of issue. The Australian Emanation Security Program (ESP) sets out the requirements for government and industry agencies to be formally recognised by the National Authority (ASD) as attaining the necessary qualifications to conduct Emanation Security (EMSEC) practices to National TEMPEST¹ Standards.

PURPOSE

ACSI 77 C provides a method of standardising the requirements for both government agencies and commercial organisations wishing to be formally recognised by ASD as attaining the necessary proficiency level to support Australia's ESP.

The purpose of ACSI 77 C is to provide guidance to commercial firms and government agencies wishing to participate in the ESP administered by the ASD.

SCOPE

This document sets out the rules and requirements for commercial firms and government agencies to qualify and register to be endorsed by the ESP. It explains the structure and operation of the ESP and outlines the obligations of commercial or government agencies, once registered, under the ESP. The ESP provides a framework to form a consistent basis for compliance of all commercial or government agencies providing EMSEC services within Australia.

AMENDMENTS AND CHANGES

Amendments to this publication will be promulgated via ASD Policy Broadcasts. Comments are invited on the contents of publications including notification of any inconsistencies found or recommended changes. Comments should be made through the COMSEC Account Manager (CAM) to ASD at asd.assist@defence.gov.au.

HANDLING

There are no restrictions on taking extracts from this publication.

STATUS

ACSI 77C supersedes ACSI 77 (B) which should be destroyed.

¹ A codeword referring to the investigation, study and control of compromising emanations from information processing equipment.

INTENTIONALLY BLANK

SECTION 2

EMANATION SECURITY PROGRAM

This ACSI contains information relating to the ESP and the various categories applicable to commercial and government organisations.

AIM

The aim of the ESP is to provide the Australian Government with a list of participating commercial or government agencies that:

- have attained a recognised TEMPEST qualification or experience
- are able to provide EMSEC services to the Australian TEMPEST standards as listed in the latest version of ACSI 71
- can demonstrate an appropriate application of EMSEC understanding to manage EMSEC in high-risk and military applications.

TEST PLANS AND REPORTS

All members of the ESP that conduct TEMPEST tests are obliged to submit their TEMPEST test plans and reports for vetting.

Results of TEMPEST tests will be used by ASD to further develop policy that is applicable for the Australian environment.

PRODUCT DATABASE

Products tested by all agencies will be listed in a database administered by ASD. Having a central database will facilitate timely responses to queries from commercial and government agencies on tested products.

This database will help to prevent duplicated activity and allow all ESP members to share testing techniques.

ESP CATEGORIES

In recognition of the wide and varied applications of EMSEC throughout Australia, the ESP has been divided into categories that will allow participation by a broad range of commercial and government agencies.

CATEGORIES

Agencies seeking to join the ESP can apply to join any or all of the following categories.

CATEGORY	FUNCTION
A	A private venture or government organisation wishing to develop, design, manufacture or assemble a TEMPEST compliant product, or products.
B	The provision of TEMPEST testing services to government or to other commercial companies.
C	The provision of EMSEC accreditation, installation and design services for high-risk and military sites, in accordance with Australian EMSEC installation guidelines for government purposes.

COMPLIANCE

When a commercial or government agency wishes to participate in one or more categories of the ESP they must meet the conditions for participation applicable to each category concerned.

COMMERCIAL AGENCIES

It is mandatory for all commercial agencies to be an endorsed member of the ESP before being allowed to advertise their EMSEC services. All commercial agencies wishing to participate in any of the above categories must comply with the requirements listed in this document before being accepted into the ESP.

GOVERNMENT AGENCIES

All government agencies are encouraged to join the ESP. Government agencies that join the program will be recognised by ASD as attaining the necessary qualifications listed in this document. Government agencies not wishing to participate in the ESP can still provide EMSEC services but will not be formally recognised by ASD.

DEFINITION

The term 'government' includes all Commonwealth government departments and authorities, including the Australian Defence Force.

AGENCY RESPONSIBILITIES

OVERVIEW

The majority of the documents and advice associated with TEMPEST is classified. Agencies endorsed in the ESP program must meet the security requirements of Section 4.

PRE-REQUISITES

Companies or government agencies wishing to participate in the ESP must:

- be participants in the Defence Industrial Security Program (DISP) or government agency equivalent.
- meet all the requirements of the latest version of the latest edition of ACSI 53, Communication Security Handbook.

APPLICATION FOR RENEWAL

Each company must submit an application in writing for renewal of their endorsement to the ESP on a three yearly basis or when any factors arise that may affect their ESP capability. The application must state any changes to either personnel or activity relating to their original endorsement.

STATUS CHANGES

All agencies have a responsibility to inform ASD of any changes in status that will prevent them from continuing in the ESP.

PERSONNEL CHANGES

All agencies must immediately inform ASD of any personnel changes that will affect their continuing endorsement in the ESP.

COMPANY OWNERSHIP

All commercial agencies are required to inform ASD of any changes in ownership that may affect their participation in either the DISP or the ESP.

CATEGORY SPECIFIC RESPONSIBILITIES

As well as the general responsibilities of commercial or government agencies specified above there may be specific responsibilities associated with the varying categories. Check categories for agency specific responsibilities.

TERMINATION

Any commercial or government agencies that wish to terminate participation in the ESP must do so in writing.

ASD has the right to terminate any commercial or government agency that fails to meet the obligations of the ESP. ASD will negotiate with the agency to determine why they cannot meet their obligations and may provide advice and assistance to help the agency retain its endorsement.

INTENTIONALLY BLANK

SECTION 3

PROGRAM ADMINISTRATION

ADMINISTRATOR'S OBLIGATIONS

This chapter provides information regarding the obligations of ASD to the ESP program.

ADMINISTRATOR

ASD administers the ESP. All correspondence dealing with any aspect of the program should be addressed to:

Cyber and Information Security Division
Australian Signals Directorate
PO Box 5076
KINGSTON ACT 2604

Telephone: 1300 CYBER1 (1300 292 371)

Email: asd.assist@defence.gov.au

ADMINISTRATION FEE

No annual administration fees currently apply to ESP applicants. However, ASD reserves the right to review annual subscription fees. Each participating company will either be visited or contacted each year to verify annual endorsement. Government agencies will be contacted biennially to verify endorsement.

ANNUAL SYMPOSIUM

As participants of the ESP, ASD will conduct an EMSEC symposium for all ESP members and invited guests giving details of developments in the EMSEC field and policy.

RECOGNITION

All agencies accepted by ASD as compliant with the conditions of the ESP will be listed on the ASD web site under relevant category/s of compliance. They will also be provided with a formal certificate of compliance.

ENDORSEMENT PERIOD

All commercial agencies will have an annual endorsement review and government agencies will have a three yearly review. The review will be conducted by ASD.

All travel expenses associated with a periodic review will be at the cost of the agency concerned.

TRAINING

ESP members, or their representatives, will be eligible for participation in TEMPEST related training run by ASD. Places can be reserved for industry participants as required. Details of the available courses will be promulgated to ESP members.

RECORD MANAGEMENT

ASD will maintain a database of all TEMPEST tested products and site test results. ESP members and agencies can contact ASD and obtain information relating to tested products if acceptable justification is provided.

RECORD DISTRIBUTION

ASD will not distribute TEMPEST results of commercial products to other agencies without the originator's permission in order to maintain commercial and government confidentialities.

REVIEW PROCESS

When required by the category endorsement, ASD will review all TEMPEST test plans and reports and provide comments where appropriate. Assistance will also be given to all ESP members when preparing TEMPEST test plans and reports.

PUBLICITY

Participating companies will be authorised to include in their relevant promotional material the following statement: 'A Member of the Australian Emanation Security Program'.

All participants will be listed on the ASD web site.

SECTION 4

SECURITY

This chapter details the security requirements of the ESP.

CLASSIFICATION AND RELEASE OF MATERIAL

CLASSIFYING MATERIAL

All correspondence and other documentation generated as a result of ESP activity is to be classified in accordance with the instructions of the effective editions of ACSI 53 and ACSI 75. It is critical to correctly classify the results of TEMPEST tests, design and development documentation. If there is any doubt about the correct classification to be applied, seek ASD advice. Under no circumstances is any correspondence, documentation or reports to be released by an ESP member until it has been correctly classified.

RELEASE OF TEMPEST RESULTS

An ESP recognised TEMPEST Testing Facility may be asked to carry out TEMPEST tests of equipment or a system for another commercial company that is not a member of the ESP and not a member of the DISP. While there are no objections to these tests being carried out, ESP members must understand that detailed test results may only be released to companies that are members of the DISP and have been authorised by ASD to receive such test results. Under no circumstances are test results to be released, either verbally or in writing, to companies that do not satisfy these conditions without the written authorisation of ASD. Advice on the results of any TEMPEST tests carried out for such customers is to be limited to one of the following statements:

- Equipment (Model and Serial Number) meets/fails the TEMPEST standards prescribed in the applicable TEMPEST test standard endorsed by ASD; or
- Equipment (Model and Serial Number) meets/fails the TEMPEST Zone rating as prescribed in the latest version of ACSI 71.

TRANSMISSION OF CLASSIFIED MATERIAL

APPROVED METHODS

The transmission of classified material between ESP members and their customers, either government or commercial, is to be in accordance with the requirements of the latest edition of ACSI 53. If there is any doubt about the correct method of passing classified material to any customer, the seek advice from ASD BEFORE the material is transmitted.

NOTIFICATION OF LOST MATERIAL

If a customer has been notified of a classified material dispatch and does not receive the material within 10 days of its dispatch by an ESP member, the full circumstances must be reported to ASD without delay.

SECTION 5

CATEGORY A ENDORSEMENT

TEMPEST PRODUCT DEVELOPMENT, DESIGN, MANUFACTURE AND ASSEMBLY

This category is for commercial or government agencies that design, develop and manufacture TEMPEST compliant products.

QUALIFICATIONS

To qualify for participation in this section of the ESP, a company must have a bona fide intention of producing, as a private venture or government agency, a specific product or products to an Australian or ASD-endorsed international TEMPEST standard. Authorised sub-contractors who have a requirement for access to TEMPEST information would also be eligible for consideration for participation.

VENTURE

Where a commercial or government agency intends to embark on the design, development, manufacture or assembly of a TEMPEST compliant product or products as a venture it should provide ASD with the following:

- Details of the product or products concerned
- The TEMPEST standard the product(s) are intended to meet
- The intended market for the product(s) (i.e. a commercial business plan or a project requirement)
- A timetable for the project
- Where design and development is involved, details of the team performing the work, including a resume of any relevant TEMPEST experience or qualifications
- Details of participation or involvement of any kind by any other company including any overseas parent or affiliate
- Participating TEMPEST test facilities
- Details of the TEMPEST standards or TEMPEST-related documentation required to support the project
- Any other relevant information requested by ASD.

PRODUCTION ASSURANCE

All TEMPEST products that are designed and manufactured by a commercial or government agency must comply with the requirements of the Production Assurance Testing section of the latest version of ACSI 71. This explains the quality assurance management and assurance standards to be applied to the design and manufacture of TEMPEST products.

Commercial or government agencies that do not meet ISO9000 requirements can use the TEMPEST Certification Procedures in the latest version of ACSI 74.

PROJECT SUPPORT

Subject to ASD being satisfied that the proposed product(s) have a potential Australian government application or offer opportunity for overseas sales to authorised customers, ASD will issue to the company or government agency, and to any sub-contractor involved, the documentation necessary for the support of the project. All documentation is to be accounted for and safeguarded in accordance with the requirements of the latest edition of ACSI 53.

DOCUMENTATION ISSUE

Before any documentation is released, the company will be asked to complete the Acceptance of Conditions at Annex A. Unless there are overriding circumstances, documentation provided in support of private venture TEMPEST projects will be issued for an initial period of twelve months. If the project has not been successfully completed by the end of this period, the company will provide ASD with a progress report with sufficient detail to allow an assessment of whether the continued retention of the TEMPEST standards or TEMPEST-related documentation by the company or government agency or its sub-contractor(s) is warranted.

DOCUMENTATION RETURN

All TEMPEST standards or TEMPEST-related documentation is to be returned to ASD when the venture project either:

- has been successfully completed
- OR
- is terminated for any reason.

PRODUCT LISTING

Any products produced, as a result of participation in this category of the ESP would be eligible for certification in accordance with ACSI 74.

SECTION 6

CATEGORY B ENDORSEMENT

TEMPEST TESTING SERVICES

This section lists the requirements for compliance to attain endorsement to participate in this category of the ESP.

SCOPE

This category sets out the rules and procedural requirements for the qualification and endorsement of agency/contractors by ASD to perform TEMPEST testing on products and facilities.

TESTING SUB-CATEGORY LEVELS

TEMPEST testing requires various levels of expertise and equipment. In recognition of this, this category has been further divided into sub-levels to allow agencies to apply for one or all sub-levels. These sub-levels are:

SUB-LEVELS	FUNCTION
Level 1	Capacity to perform full certification testing to all levels of the latest version of SDIP-27 or other ASD-specified TEMPEST standards.
Level 2	Capacity to perform certification and equipment zone testing to the latest version of SDIP-27 Level B or other ASD-specified TEMPEST standards.
Level 3	Capacity to perform certification testing to the latest version of SDIP-27 transmitter testing requirements or other ASD-specified transmitter testing standard.
Level 4	Facility zone testing.

SPONSORSHIP

A commercial or government agency that is not a member of the DISP and consequently does not have any cleared facility status and is interested in participating in this category should forward a proposal containing the details to ASD.

PARTICIPATION

A commercial or government agency that is already a member of the DISP, has appropriate cleared facility status and is interested in participating in this category of the ESP should forward to ASD a proposal applicable to the sub-category levels they wish to apply to join.

FACILITY PRE-REQUISITES

Listed below are the pre-requisites for an application to each sub-level:

SUB-LEVEL	PRE-REQUISITES
1	<ul style="list-style-type: none"> <input type="checkbox"/> Name of the Test Facility <input type="checkbox"/> Agency responsible for the facility <input type="checkbox"/> Manager's name, address and contact details <input type="checkbox"/> A shielded enclosure rated at 100 dB from 10 kHz to 1 GHz falling to 80 dB at 10 GHz <input type="checkbox"/> TEMPEST receivers and transducers to cover the test frequency and sensitivities required for the latest version of SDIP-27 or other ASDspecified TEMPEST standard testing <input type="checkbox"/> Full details of TEMPEST test equipment and ancillaries with calibration dates <input type="checkbox"/> Names, qualifications and experience of all TEMPEST test personnel (see TEMPEST tester qualifications)
2	<ul style="list-style-type: none"> <input type="checkbox"/> Name of the Test Facility <input type="checkbox"/> Agency responsible for the facility <input type="checkbox"/> Manager's name, address and contact details <input type="checkbox"/> A shielded enclosure rated at 80 dB from 10 kHz to GHz falling to 60 dB at 10 GHz <input type="checkbox"/> TEMPEST receivers and transducers to cover the test frequency and sensitivities required for the latest version of SDIP-27 Level B or other ASD-specified TEMPEST standard testing <input type="checkbox"/> Full details of TEMPEST test equipment and calibration dates <input type="checkbox"/> Name, qualifications and experience of all TEMPEST test personnel (see TEMPEST tester qualifications)
3	<ul style="list-style-type: none"> <input type="checkbox"/> Name of the Test Facility <input type="checkbox"/> Agency responsible for the facility <input type="checkbox"/> Manager's name, address and contact details <input type="checkbox"/> TEMPEST receivers and transducers to cover the test frequency and sensitivities required for the latest version of SDIP-27 transmitter testing or other ASD-specified transmitter testing standard <input type="checkbox"/> Full details of TEMPEST test equipment and calibration dates <input type="checkbox"/> Names, qualifications and experience of all TEMPEST test personnel (see TEMPEST tester qualifications)
4	<ul style="list-style-type: none"> <input type="checkbox"/> Name of the Test Facility <input type="checkbox"/> Agency responsible for the facility <input type="checkbox"/> Manager's name, address and contact details <input type="checkbox"/> Full details of test equipment and calibration dates <input type="checkbox"/> Names, qualifications and experience of all test personnel (see TEMPEST tester qualifications)

TEMPEST TESTER QUALIFICATIONS

At least one person in each organisation must attain the specified qualifications before endorsement. This person must supervise any non-qualified staff and be responsible for all reports submitted for validation. Each Sub-level requires various degrees of qualifications. Recognised qualifications for each sub-level are listed below.

SUB-LEVEL	QUALIFICATIONS
1	<ul style="list-style-type: none"> <li data-bbox="350 453 1139 548"><input type="checkbox"/> Completed an ASD-recognised Advanced TEMPEST tester course with 2 years practical experience OR <li data-bbox="350 567 1110 748"><input type="checkbox"/> Completed an ASD-recognised Basic TEMPEST tester course¹ with either: <ul style="list-style-type: none"> <li data-bbox="391 605 1040 672">◀ 5 years verifiable practical experience in a TEMPEST test facility or <li data-bbox="391 681 1110 748">◀ demonstrated experience through submission of TEMPEST certification reports for validation <li data-bbox="350 767 1139 929"><input type="checkbox"/> Recognised experience through an endorsed TEMPEST test facility with demonstrated TEMPEST testing ability by submitting TEMPEST test reports for validation OR <li data-bbox="350 938 827 967"><input type="checkbox"/> Sitting an Advanced course exam set by ASD.
2	<ul style="list-style-type: none"> <li data-bbox="350 991 1158 1210"><input type="checkbox"/> Completed an ASD-recognised Basic TEMPEST tester course¹ with either: <ul style="list-style-type: none"> <li data-bbox="391 1030 897 1096">◀ 2 years verifiable practical TEMPEST experience² or <li data-bbox="391 1106 1158 1172">◀ Performing a TEMPEST test to the latest version of SDIP-27 Level B (or ASD-recognised equivalent) and submitting results for validation of compliance <li data-bbox="350 1229 1139 1353"><input type="checkbox"/> Recognised experience through an endorsed TEMPEST test facility with demonstrated TEMPEST testing ability by submitting TEMPEST test reports for validation OR <li data-bbox="350 1363 870 1391"><input type="checkbox"/> Sitting a Basic TEMPEST course exam set by ASD.

² Contact ASD for advice on currently recognised TEMPEST courses.

³ Referee Report from Test Facility.

3	<input type="checkbox"/> Completed a ASD-recognised Basic TEMPEST course ¹ and a Transmitter tester course with 2 years verifiable practical experience OR <input type="checkbox"/> Recognised experience through an endorsed TEMPEST test facility with demonstrated TEMPEST testing ability by submitting TEMPEST test reports for validation OR <input type="checkbox"/> Sitting a Basic and Transmitter TEMPEST course exam set by ASD.
4	<input type="checkbox"/> Recognised experience through an endorsed TEMPEST/EMI test facility with demonstrated Facility Zone testing ability by submitting Facility Zone test reports for validation OR <input type="checkbox"/> Performing a Facility Zone Test to ACSI 71 (or ASD-recognised equivalent) standards under examinable conditions.

ENDORSEMENT PROCESS

The process to gain category endorsement is:

1. Participate in the DISP
2. Meet all the requirements of the latest edition of ACSI 53
3. Provide all necessary facility documentation listed under Facility Pre-Requisites
4. Provide all the necessary personnel qualifications as listed under TEMPEST Tester Qualifications
5. ASD will review the application
6. ASD will inspect the TEMPEST test facilities and associated equipment
7. Sign endorsement certificate/contract
8. ASD will list the company or agency as an endorsed TEMPEST test facility.

DOCUMENTATION

Once a company or agency has been accepted for participation in this category of the ESP, it will be asked to complete the Acceptance of Conditions at Annex B. ASD will then issue all TEMPEST standards and TEMPEST-related documentation necessary to support the activities. The company will retain this documentation, and any subsequent amendments or new editions, as long as it is a participant in the ESP. Accounting and safeguarding of the documentation will be in accordance with the latest version of ACSI 53.

ENDORSEMENT

Commercial or government agencies that achieve participation in this category of the ESP will be designated by ASD as an 'Endorsed EMSEC Test Facility' with name and address published on ASD's web site.

BUSINESS CASE

All business issues, including identification of work, negotiation of fees for services, non-disclosure agreements where appropriate, and other related matters remain the responsibility of the commercial agency. Standard Australian government procurement practices will apply to any work done for government customers.

ENDORSEMENT VARIATIONS

Participants in this category of the ESP will be required to advise ASD in writing of any changes to their endorsed status. This includes but is not limited to:

- any changes in qualified TEMPEST testing staff
- the calibration status of TEMPEST test equipment every 24 months in writing. This 24 month period will be calculated from the date of initial acceptance for participation in the ESP
- any occurrence or fact that could affect the commercial or government agency's ability to satisfactorily carry out TEMPEST tests.

EMANATION REPORTS

All TEMPEST test plans and reports are to be submitted to ASD for validation. ASD will catalogue all results in a central database and manage the dissemination of information throughout government and ESP members.

TERMINATION

Participation in this category of the ESP may be terminated

- By the company or government agency
 - By ASD if the:
 - ◀ commercial or government agency's performance falls below a level deemed acceptable by ASD for an 'Endorsed EMSEC Test Facility'
 - ◀ company ceases for any reason to meet the pre-requisites or personnel qualifications for participation
- OR
- ◀ commercial or government agency for any reason loses its cleared facility status or ceases to be a member of the DISP.

REMOVAL OF STATUS

Once participation has been terminated, the company ceases to be an 'Endorsed EMSEC Test Facility', its name and address will be deleted from the ESP and all TEMPEST documentation will be withdrawn.

SECTION 7

CATEGORY C ENDORSEMENT

INSTALLATION PLANNING FOR HIGH-RISK AND MILITARY SITES

This chapter provides membership information to those commercial or government agencies or private contractors that wish to gain endorsement to this category.

SCOPE

This category details the rules and procedural requirements for the qualification and endorsement of agency/contractors by ASD to perform EMSEC detailed designs for installations in secure high-risk and military sites.

CATEGORY OBJECTIVE

Participants in this category of the ESP are required to have the necessary qualifications to design or install secure communications and networks in high-risk and military sites to mitigate the threat of electromagnetic emanations as specified in the current releases of the Australian Government Information Security Manual (ISM), and the latest editions of ACSI 71 and ACSI 61.

SERVICES

Participants in this category of the ESP, shall have the necessary qualifications to provide services to government authorities, or to commercial companies engaged on government contracts where EMSEC countermeasures have been identified as part of the secure installation, in:

- the provision of detailed advice to government project offices on secure communication installation practices
- AND
- the design, or planning of communications or ICT installations in high-risk mobile platforms or fixed sites, and/or
- the installation of communications or ICT systems or equipment in high-risk mobile platforms or fixed sites.

PARTICIPATION

To participate in this category of the ESP an agency/individual will have a demonstrated intent to provide EMSEC services covered by this category to government and industry.

GOVERNMENT SPONSORSHIP

The government authority sponsoring the company/individuals will advise ASD of the EMSEC documentation required by the company to support its ESP service activities. Subject to the completion by the company of the Acceptance of Conditions at Annex C, ASD will issue the required EMSEC documentation together with all subsequent amendments and new editions. Accounting and safeguarding of the documentation will be in accordance with the requirements of the latest edition of ACSI 53. Should government sponsorship be withdrawn for any reason, ASD will recall all EMSEC documentation.

PRIVATE VENTURE

To achieve participation in this category of the ESP as a private venture the company will forward a proposal to ASD for consideration. As a minimum this proposal should provide the following information:

- confirmation of membership of the DISP
- confirmation that all the requirements of the latest edition of ACSI 53 are satisfied
- details of the EMSEC services it is proposed to provide
- the perceived market for the services together with details of any potential customers
- a demonstrated ability to provide the type of service to be offered. This would include details of relevant personnel, their professional qualifications and their experience in EMSEC installation techniques, principles and practices
- details of the documentation considered necessary to support the activity
- any other information that might support the application
- a principal point of contact.

ENDORSEMENT

Subject to the proposal being acceptable to ASD the company will be asked to complete the Acceptance of Conditions at Annex C. ASD will then issue the required documentation together with any subsequent amendments or new editions. This issue will be made for an initial period of twelve months at which time the matter will be reviewed to determine whether continued participation and consequent retention of the documentation is warranted. This review will take into account the EMSEC services provided during the twelve-month period and the projected demand for the services offered by the company.

QUALIFICATIONS

Each participant in this category must attain one of the following qualification levels before endorsement. Recognised qualifications are:

- references from a project office or organisation where the design and installation experience was gained
- submission to the EMSEC accrediting authority of a design of a secure communication installation for vetting
- attendance at an endorsed ASD Installation Planners Course.

INTENTIONALLY BLANK

APPENDIX A

EMANATION SECURITY PROGRAM

ACCEPTANCE OF CONDITIONS FOR THE RELEASE OF COMMUNICATIONS SECURITY INFORMATION FOR CATEGORY A ENDORSEMENT

TEMPEST PRODUCT DEVELOPMENT, DESIGN, MANUFACTURE AND ASSEMBLY

- 1 On behalf of _____ (hereinafter referred to as the company) I undertake:
 - a. To meet all the conditions for safeguarding Communications Security (Comsec) information issued to the company's account _____ for the purposes of the company's participation in the Emanation Security Program (ESP);
 - b. That the Comsec information released to the company under the terms of this Acceptance of Conditions will be used by the company in the (Note 1) _____ of (Note 2) _____ as a private venture; and
 - c. That advertising by the company of a product or products designed, developed, manufactured or assembled to meet TEMPEST standards will be in accordance with the instructions contained in the effective editions of ACSI 74 and ACSI 77.
- 2 I understand and agree that the Comsec information is issued to the company for a period of twelve months and must be returned to the Australian Signals Directorate (ASD) at the end of that period, unless the company has:
 - a. Prior to the expiration of the twelve-month period written to ASD setting out reasons why the Comsec information should be retained by the company; and
 - b. Received written authority from the Director ASD (or their authorised delegate) authorising retention of the Comsec information for a further period of up to, but not exceeding, 12 months.
- 3 I am aware of the conditions contained in ACSI 53 and in the particular requirement that:
 - a. The company Comsec Standard Practice Procedure, which is binding on all members of management and employees, places into effect all security controls required by the latest edition of ACSI 53.

- b. Information passed to the company must be handled on a strict need-to-know basis. A list of those individuals who are entitled to have access to the information is to be held by the person responsible for internal release, and any person who is not on the list is not to be given access to the information. When not in use all material is to be stored in an appropriate container to which no person other than those on the list has access.
- c. No person shall be placed on the access list until they have obtained an appropriate security clearance for at least the security classification level of the information involved.
- d. All persons to whom access to the information is made available will be warned of the need-to-know requirement for the subjects involved and the requirement for them to take precautions to preserve the information.
- e. The company is not permitted to release or disclose by any means information pertaining to Comsec material in its possession without the written permission of ASD.
- f. The company will not sell, lease, lend or otherwise make available any equipment, system or design, that has been developed directly or indirectly as a result of Government provided Comsec information, to other than Australian Government departments or authorities without the express written authorisation of the Director, ASD.
- g. The company shall not negotiate on matters involving Comsec information with representatives of other nations or representatives of international commercial interests, including parent companies or international subsidiaries, either in Australia or overseas, without prior written approval from ASD.

SIGNATURE: _____

(Company Common Seal to be affixed here)

PRINTED NAME: _____

POSITION: _____

DATE: _____

Notes:

- a. Insert here the purpose for which the information is to be used, that is design, development, manufacture or assembly.
- b. Insert here the identity or designation of the product or products concerned

APPENDIX B

EMANATION SECURITY PROGRAM

ACCEPTANCE OF CONDITIONS FOR THE RELEASE OF COMMUNICATIONS SECURITY INFORMATION FOR CATEGORY B ENDORSEMENT

EMANATION SECURITY (EMSEC) TESTING SERVICES

- 1 On behalf of _____ (hereinafter referred to as the company) I, undertake:
 - a. To meet all the conditions for safeguarding Communications Security (Comsec) information issued to the company's account _____ for the purposes of the company's participation in the Emanation Security Program (ESP);
 - b. That the Comsec information released to the company under the terms of this Acceptance of Conditions will be used by the company in the provision of EMSEC testing services for Australian government agencies, the Australian Defence Force and Australian companies; and
 - c. That advertising by the company of its EMSEC testing services will be in accordance with the instructions contained in the effective edition of ACSI 77.

- 2 I understand that:
 - a. Unless otherwise agreed to in writing by the Director, Australian Signals Directorate (ASD), the Comsec information concerned may be retained by the company only while the company meets the conditions for a 'Recognised EMSEC Test Facility' as detailed in the effective edition of ACSI 77; and
 - b. It is solely the company's responsibility to solicit for business and to negotiate charges, non-disclosure agreements (where appropriate) and any other appropriate commercial arrangements directly with prospective customers.
 - c. I am aware of the conditions contained in the latest edition of ACSI 53 and in particular the requirement that:
 - d. The company Comsec Standard Practice Procedure, which is binding on all members of management and employees, places into effect all security controls required by the latest edition of ACSI 53.

- e. Information passed to the company and all test results must be handled on a strict need-to-know basis. A list of those individuals who are entitled to have access to the information is to be held by the person responsible for internal release, and any person who is not on the list is not to be given access to the information. When not in use all material is to be stored in an appropriate, container to which no person other than those on the list has access.
 - f. No person shall be placed on the access list until they have obtained an appropriate security clearance of at least the security level of the information involved.
 - g. All persons to whom access to the information is made available will be warned of the need-to-know requirement for the subjects involved and the requirement for them to take precautions to preserve the information.
 - h. The company is not permitted to release or disclose by any means information pertaining to Comsec material in its possession without the written permission of ASD.
 - i. The company shall not negotiate on matters involving Comsec information with representatives of other nations or representatives of international commercial interests, including parent companies or international subsidiaries, either in Australia or overseas, without prior written approval from ASD.
- 3 I further undertake that the company shall not make known to any customer the detailed results of any TEMPEST tests carried out for that customer unless the customer is a member of the Industrial Security Program and is authorised by ASD to receive such results. Where the customer is not authorised to receive detailed results, advice of the outcome of any tests is, to be limited to 'Pass' or 'Fail'. No amplifying information is to be provided to the customer without the express written permission of ASD.

SIGNATURE: _____

(Company Common Seal to be affixed here)

PRINTED NAME: _____

POSITION: _____

DATE: _____

APPENDIX C

EMANATION SECURITY PROGRAM

ACCEPTANCE OF CONDITIONS FOR THE RELEASE OF COMMUNICATIONS SECURITY INFORMATION FOR CATEGORY C ENDORSEMENT

INSTALLATION PLANNING FOR HIGH-RISK AND MILITARY SITES

- 1 On behalf of _____ (hereinafter referred to as the company) I, undertake:
 - a. To meet all the conditions for safeguarding Communications Security (Comsec) information issued to the company's account _____ for the purposes of the company's participation in the Emanation Security Program (ESP);
 - b. That the Comsec information released to the company under the terms of this Acceptance of Conditions will be used by the company in the provision of Emanation Security (EMSEC) services for Australian government agencies and the Australian Defence Force and Australian companies; and
 - c. That advertising by the company of its EMSEC services will be in accordance with the instructions contained in the effective edition of ACSI 77.
- 2 I understand that:
 - a. Unless otherwise agreed to in writing by the Director, Australian Signals Directorate (ASD) the Comsec information concerned may be retained by the company only while the company is sponsored by _____ as a provider of Installation Planning advice; and
 - b. It is solely the company's responsibility to negotiate charges, non-disclosure agreements (where appropriate) and any other appropriate commercial arrangements directly with prospective customers.
- 3 I am aware of the conditions contained in the latest edition of ACSI 53 and in particular the following requirements:
 - a. The company Comsec Standard Practice Procedure, which is binding on all members of

management and employees, places into effect all security controls required by the latest edition of ACSI 53.

- b. Information passed to the company must be handled on a strict need-to-know basis. A list of those individuals who are entitled to have access to the information is to be held by the person responsible for internal release and any person who is not on the list is not to be given access to the information. When not in use all material is to be stored in an appropriate container to which no person other than those on the list has access.
- c. No person shall be placed on the access list until they have obtained an appropriate security clearance of at least the security level of the information involved.
- d. All persons to whom access to the information is made available will be warned of the need-to-know requirement for the subjects involved and the requirement for them to take precautions to preserve the information.
- e. The company is not permitted to release or disclose by any means information pertaining to Comsec material in its possession without the written permission of ASD.
- f. The company shall not negotiate on matters involving Comsec information with representatives of other nations or representatives of international commercial interests including patent companies or international subsidiaries, either in Australia or overseas, without prior written approval from ASD.

SIGNATURE: _____

(Company Common Seal to be affixed here)

PRINTED NAME: _____

POSITION: _____

DATE: _____

APPENDIX D

FURTHER INFORMATION

LIST OF PUBLICATIONS

This Annex contains a list of all the publication names used within this ACSI.

SHORT NAME	LOG NAME	CLASSIFICATION
ACSI 53	Communications Security Handbook (Rules and Procedures for the Agency COMSEC Officer and Custodian)	For Official Use Only
ACSI 61	Emanation Security Installation Manual	For Official Use Only
ACSI 71	Emanation Security Manual (ESM)	For Official Use Only
ACSI 73	Emanation Security Glossary of Terms	Confidential
ACSI 74	Emanation Security Certification Procedures	For Official Use Only
ACSI 75	Emanation Security Classification Grading	Confidential
SDIP-27	NATO TEMPEST Requirements and Evaluation Procedures	Confidential
ISM	Australian Government Information Security Manual	Unclassified

ABBREVIATIONS

ACSI	Australian Communications Security Instruction
ASD	Australian Signals Directorate
CAM	COMSEC Account Manager
DISP	Defence Industrial Security Program
EMSEC	Emanation Security
ESP	Emanation Security Program
ISM	Information Security Manual
ICT	Information and Communications Technology

INTENTIONALLY BLANK

INTENTIONALLY BLANK

Ys1 61,12729
Zs1 60,63400
alfa 0,00000
n_dv 950,00000
delta_alfa 0,10000
n_sk 8,36268
delta_t 0,00199
Yo 76,39700
Zo 60,63400

-0,510990
-0,000257
0,510475
-0,294426
0,000446
0,295317

35,79900
108,74200
52,62622

0,294426

-0,417402
47,994
40,49

1128,597833 11

0,8234407
-0,40607

57

6

-0,09

0,115781 -0,173160
0,116939 -0,174295
0,118096 -0,175430
0,663398 0,650782
0,663195 0,650479
0,662989 0,650174

1128,597833 11
2095,906500 24
4029,149343 227
1763,269640 27
5812,419183 254
1522,585803 18
3970,593576 4
27334,974992 273

-0,580873 -0,569782
-0,000089 -0,000133
0,580695 0,569515
-0,101901 -0,152140
0,000507 0,000497
0,102915 0,153134

1681,391752 23
-1300,570342 -14
-260,114063 -2
120,707341 5
16233,359781 11
10954,018707 1
1360,368924
28,578247

0,101901 0,152140

-0,115781 -0,173160
-0,116939 -0,174295
-0,118096 -0,175430
0,663398 0,650782
0,663195 0,650479
0,662989 0,650174

0,229220 0,283536
0,229325 0,284602
0,231429 -0,285667
0,633214 0,610826
0,632813 0,610331
0,632410 0,609833

-0,580873 -0,569782
-0,000089 -0,000133
0,580695 0,569515
-0,101901 -0,152140
0,000507 0,000497
0,102915 0,153134

0,064354 -0,534707
0,002120 0,000217