

Application Manual for Act on Launching of Spacecraft, etc. and
Control of Spacecraft

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[Explanatory Notes]

Unless otherwise provided, the terms used in this manual have the meanings as defined in the Act and the Regulation. The abbreviations as used in this manual have the following meanings:

Act:	Act on Launching of Spacecraft, etc. and Control of Spacecraft (Act No. 76 of 2016)
Regulation:	Regulation for Enforcement of the Act on Launching of Spacecraft, etc. and Control of Spacecraft (Cabinet Office Order No. 50 of 2017)

1. Introduction

A person who intends to obtain permission to launch a spacecraft, etc., a person who intends to obtain a type certification for a launch vehicle, a person who intends to obtain a compliance certification for a launch site, and a person who intends to obtain a license for control of a spacecraft is required to submit an application to the Prime Minister pursuant to the Act and Regulation.

This manual provides guidance on the matters necessary for these applications.

2. Applications

2.1. Types of applications

Applications relating to the launching of spacecraft, etc. and the control of spacecraft are divided into the following four categories:

- Permission related to the launching of spacecraft, etc.
- Type certification for a launch vehicle
- Compliance certification for a launch site
- License related to control of spacecraft

2.2. Types of application processes

2.2.1. Application processes for the launching of spacecraft, etc.

For the processes of application for permission related to the launching of a spacecraft, etc., Figure 1 shows a flowchart for the application based on whether the applicant has a type certification or compliance certification, the standard period of time for process as well as the documents necessary for the application. In addition, Figures 2 through 4 show a flowchart for applications for permission related to the launching of a spacecraft, etc., a flowchart for applications related to a type certification for a launch vehicle, and a flowchart for applications related to a compliance certification for a launch site.

A person who intends to implement the launching of a spacecraft, etc. using a launch site located in Japan is required to obtain permission for each instance of launching. This application does not cover the launching of a spacecraft, etc. completed before the full enforcement of the Act and the launching of a sub-orbital rocket not loaded with any spacecraft.

An applicant for permission related to the launching of a spacecraft, etc., a type certification for a launch vehicle, and a compliance certification for a launch site may be the same or different persons. However, as a compliance certification for a launch site is to be applied in relation to the launch vehicle for which a type certification

has been obtained, an applicant who has not obtained a certification for a launch vehicle is not eligible to apply for a compliance certification for a launch site.

2.2.2. Application processes related to the control of spacecraft

Figure 5 is a flowchart of application procedures for obtaining license related to the control of a spacecraft.

A person who intends to implement the control of a spacecraft using a spacecraft control facility located in Japan is required to obtain a license related to the control of a spacecraft, even if the spacecraft is launched outside Japan. In addition, even if a spacecraft control facility for normal operation is located outside Japan, if the control of a spacecraft is to be implemented using a spacecraft control facility located in Japan for a certain period, for example, for the purpose of initial operation, it is necessary to obtain the license.

This application does not cover the control of a spacecraft currently conducted at the time of the full enforcement of the Act. Here, "control of a spacecraft currently conducted" generally means that the control has been already commenced on the orbit (including the case of commencement of the control of a spacecraft only using a spacecraft control facility located outside Japan).

This application must be submitted by a person who intends to implement the control of a spacecraft, separately from an application for permission related to the launching of a spacecraft, etc.

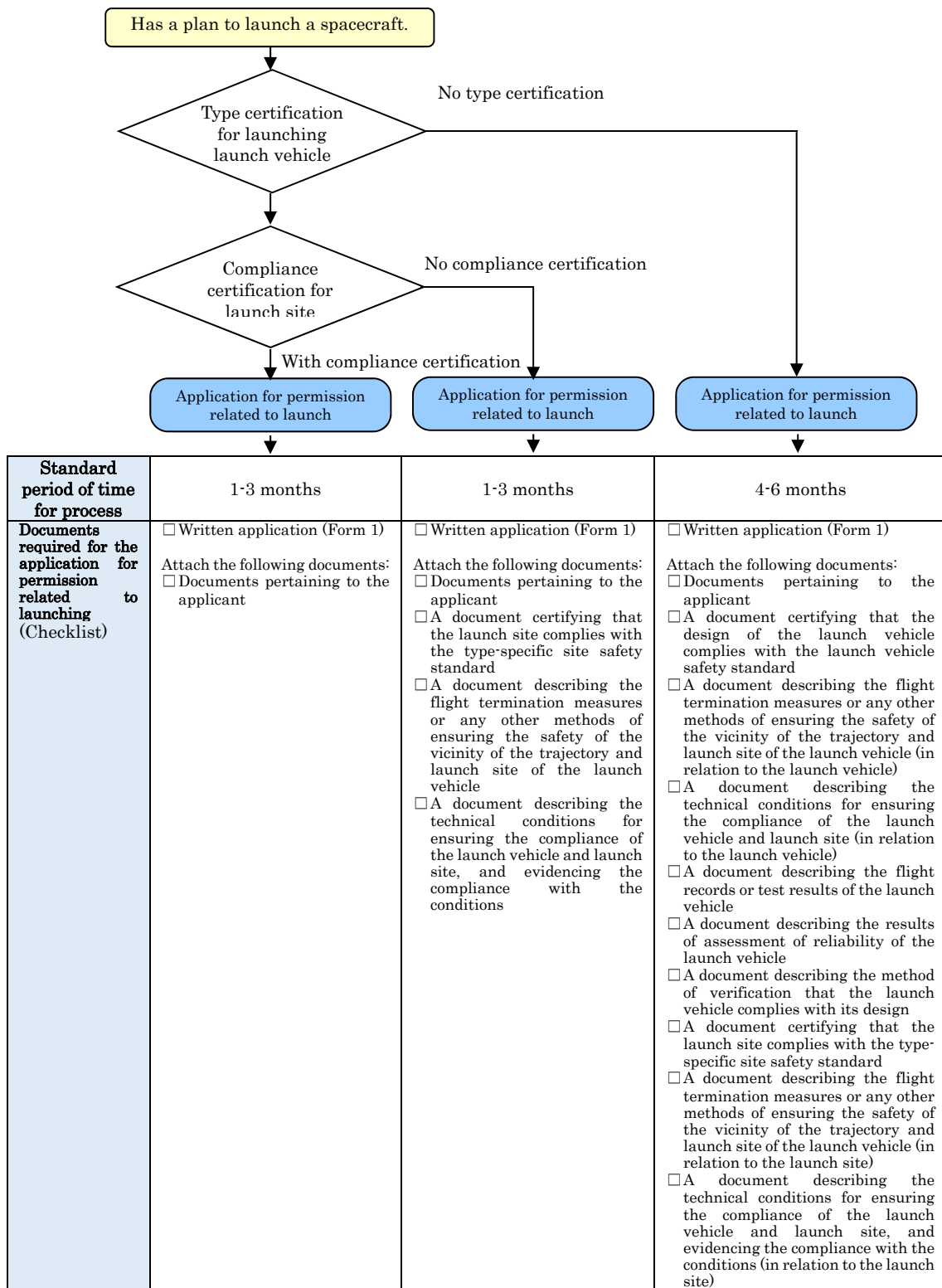


Figure 1: An application process flow for permission related to the launching of a spacecraft, etc., standard period of time for process and documents necessary for the application (depending on whether the applicant has obtained a certification)

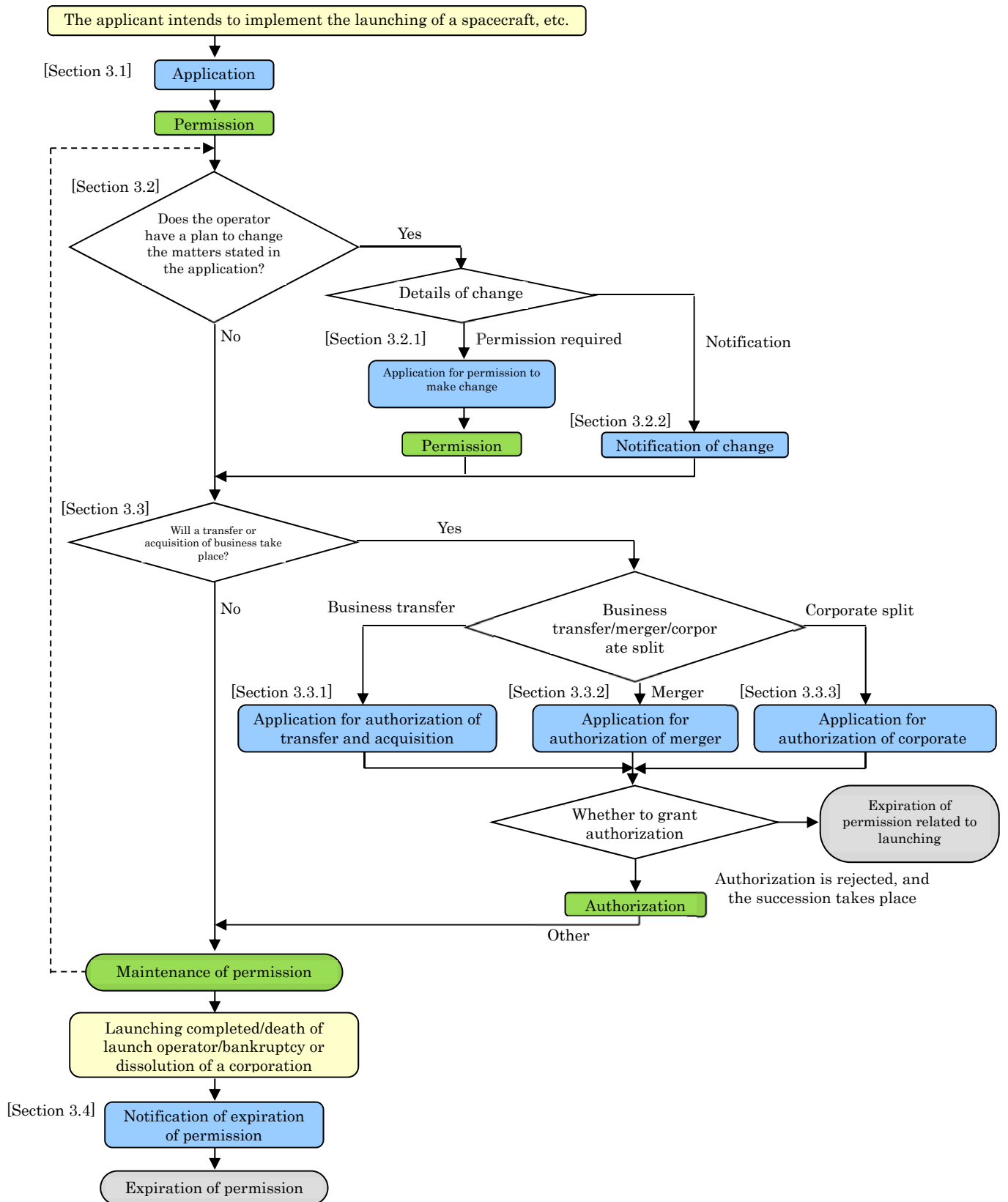


Figure 2 Flowchart of application procedures for obtaining permission related to the launching of a spacecraft, etc.

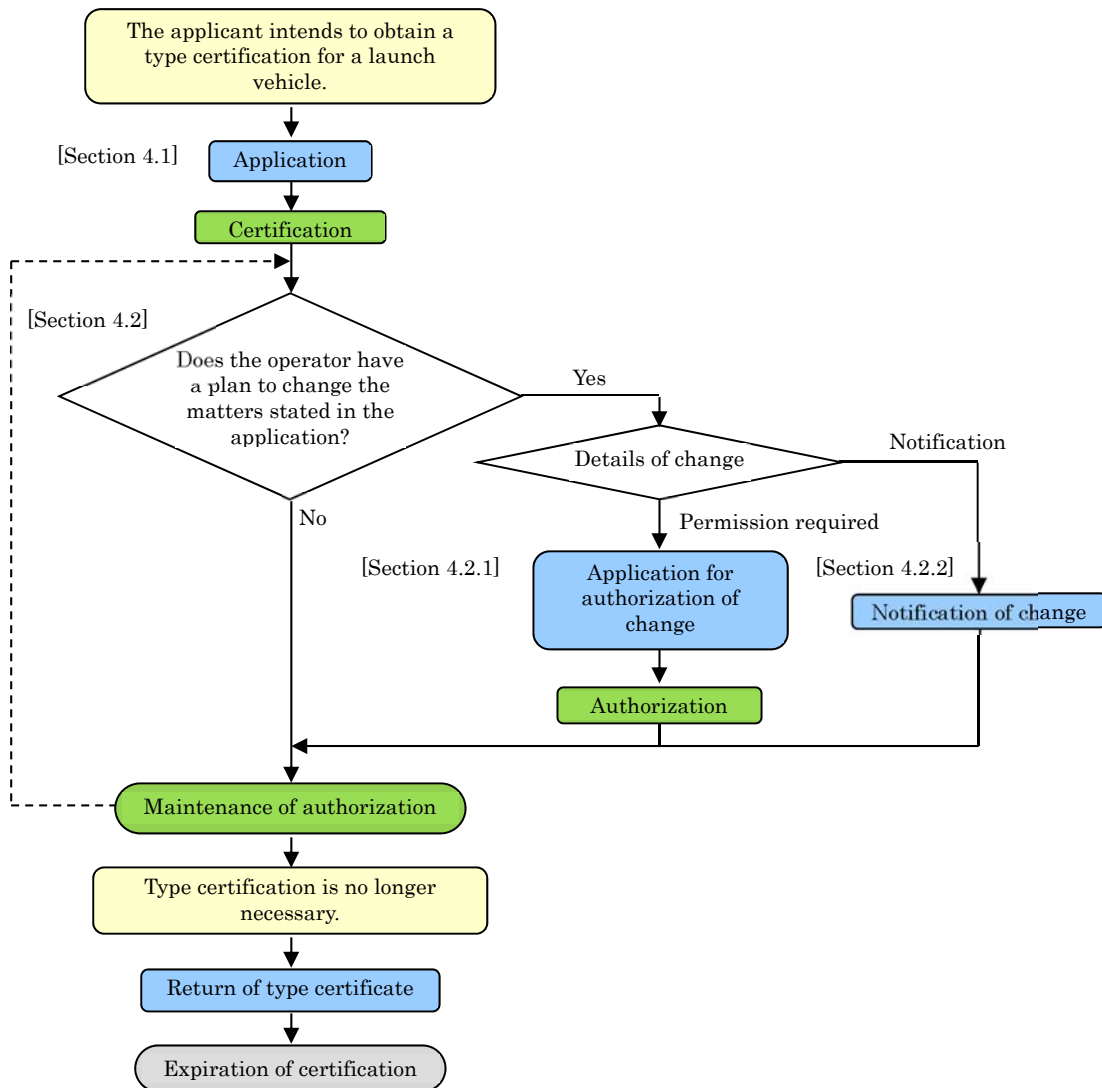


Figure 3: Flowchart of procedures for application of type certification for a launch vehicle

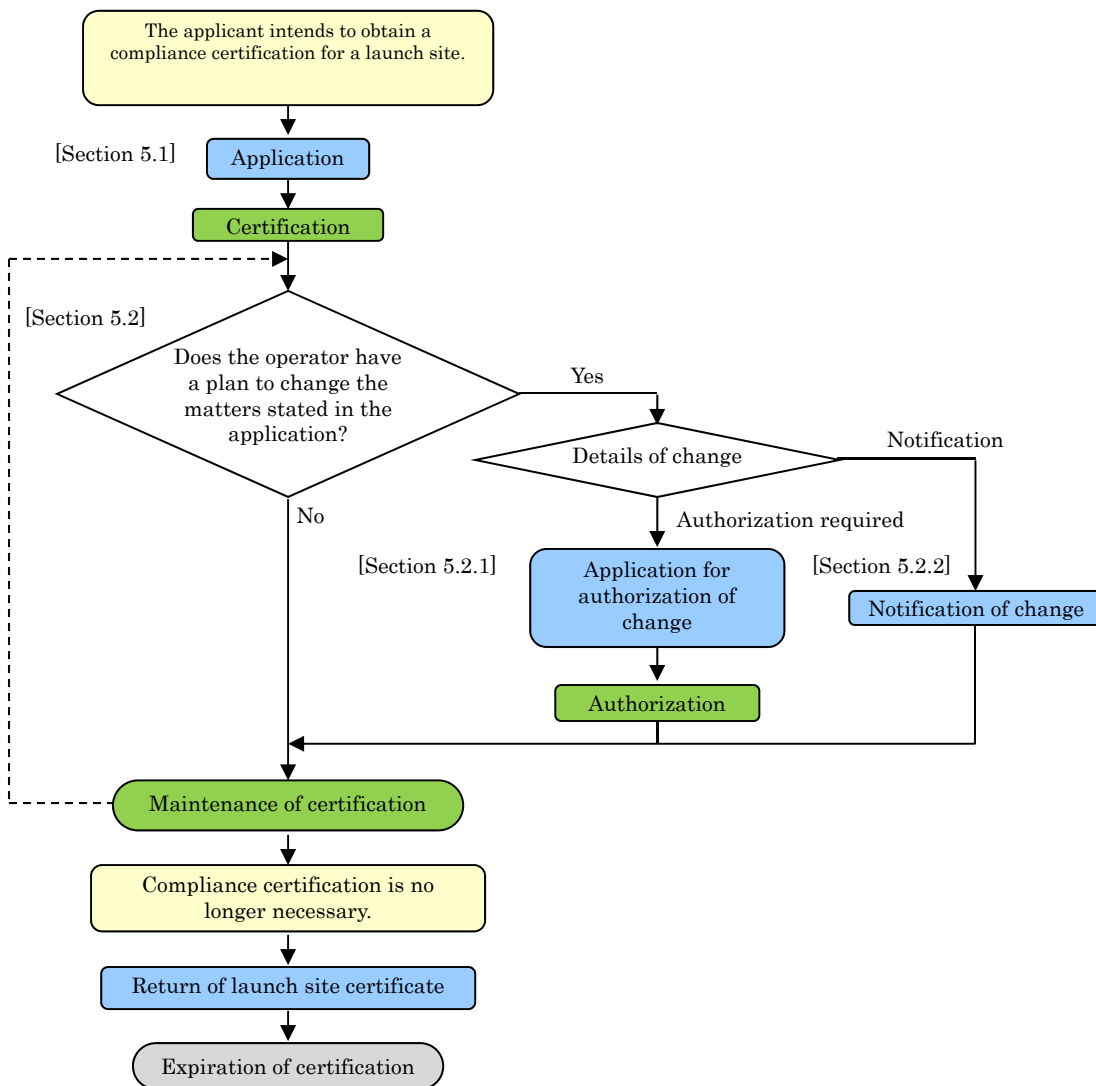


Figure 4: Flowchart of procedures for application of compliance certification for a launch site

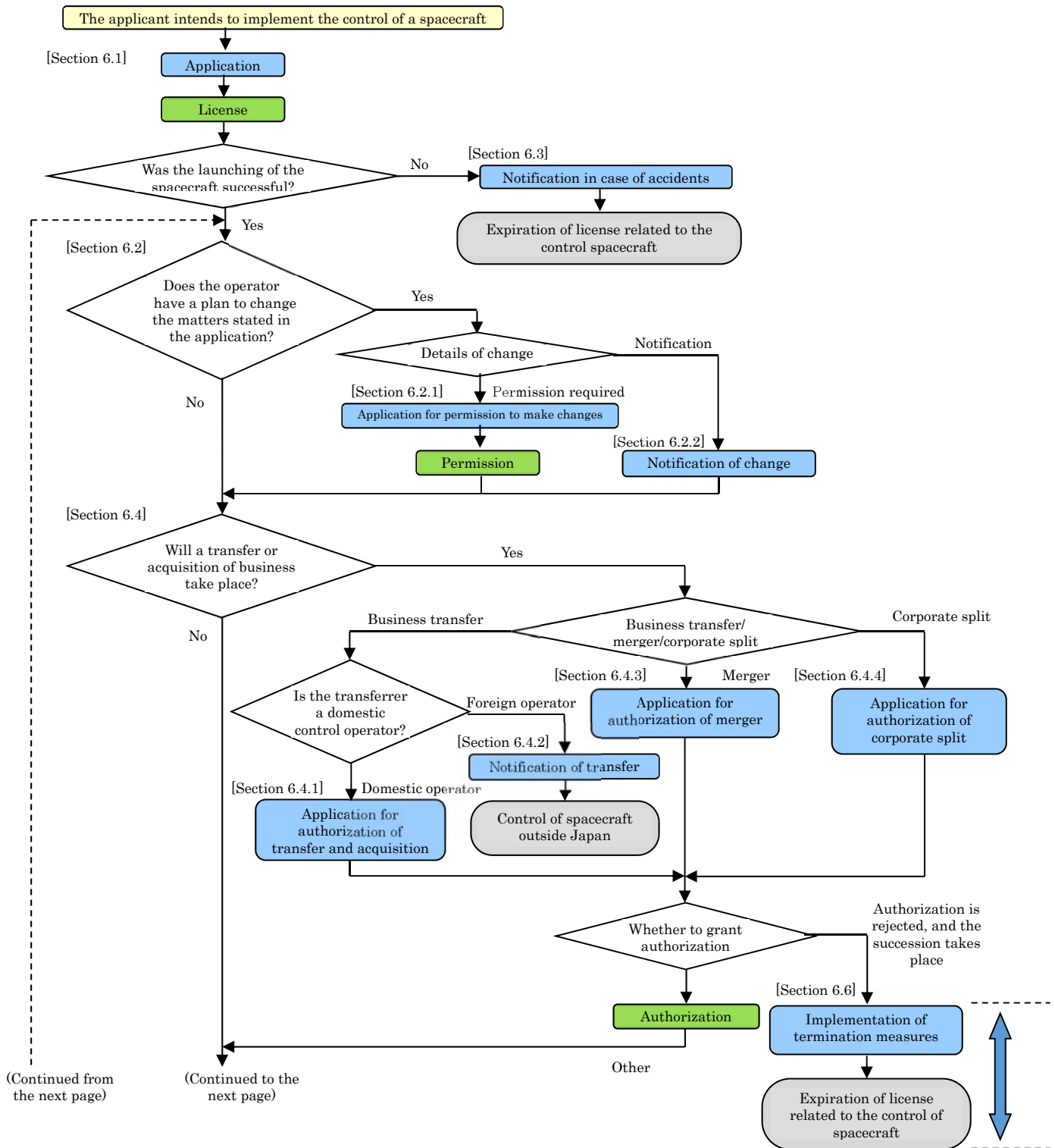


Figure 5 Flowchart of application procedures for obtaining license related to the control of a spacecraft (1/2)

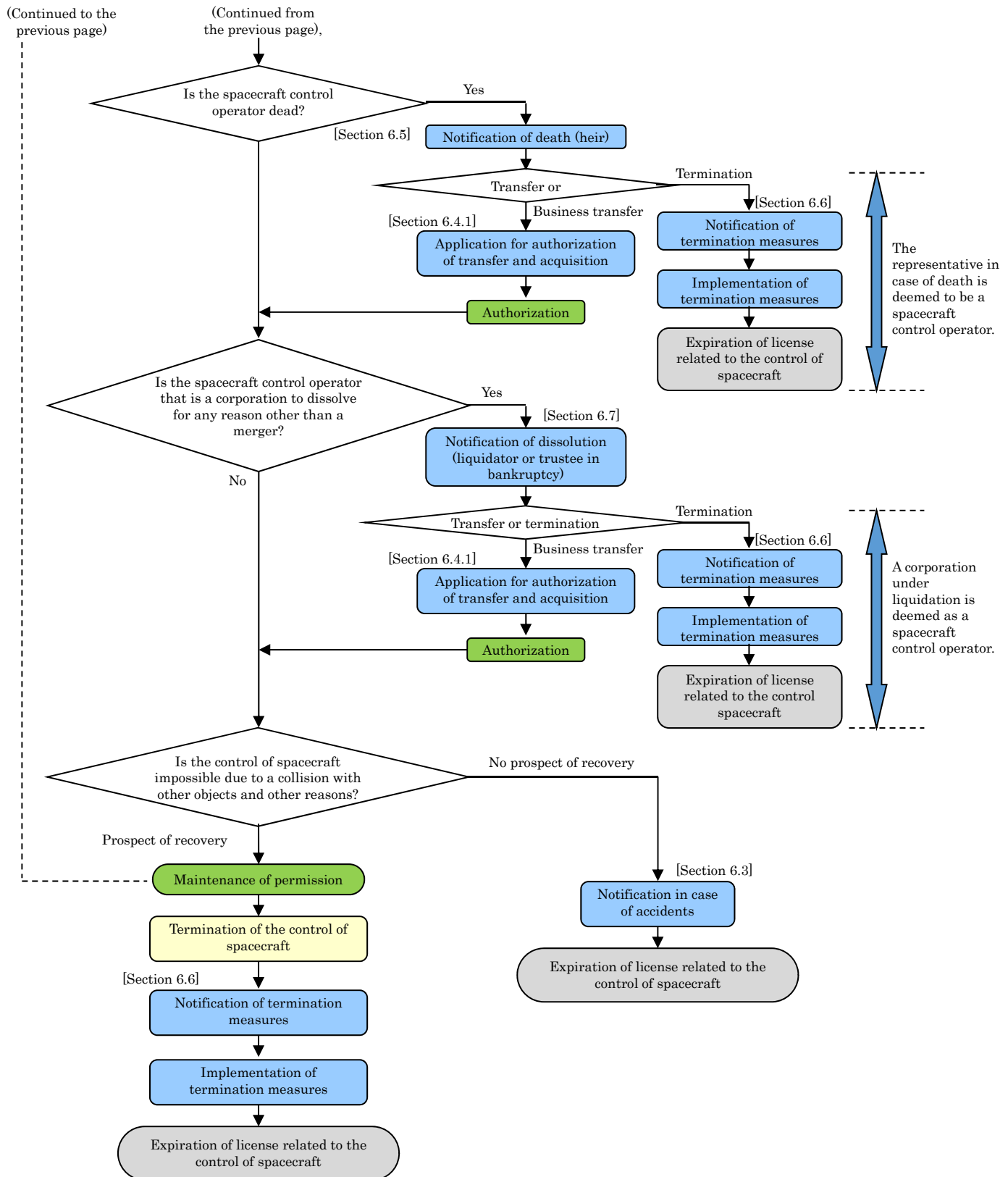


Figure 5 Flowchart of application procedures for obtaining license related to the control of a spacecraft (2/2)

2.3. Language to be used for written applications, etc.

[Language to be used for written applications, etc.]

Article 37 of the Regulation (Terms of Documents, etc.)

- (1) Written applications and written notifications as provided in this Cabinet Office Order must be prepared in Japanese; provided, however, that addresses, names and contact information may be written in a foreign language.
- (2) Documents to be attached to written applications and written notifications as provided in this Cabinet Office Order must be prepared in Japanese or English; provided, however, that Japanese translations must be submitted for any documents written in English.
- (3) If a person is unable to submit the documents under the preceding paragraph in a language provided in that paragraph due to special circumstances, notwithstanding the provisions of that paragraph, the person may submit the document together with its Japanese translations.

A person who intends to obtain permission to launch spacecraft, etc., a person who intends to obtain a type certification for a launch vehicle, a person who intends to obtain a compliance certification for a launch site, and a person who intends to obtain a license related to control of spacecraft is required to submit written applications in Form 1, Form 9, Form 13 and Form 17, respectively, attaching necessary documents. Information items to be stated in an application form and guidelines for preparation thereof is shown in 3.1.1, 4.1.1, 5.1.1 and 6.1.1, and the necessary attached documents are shown in 3.1.2, 4.1.2, 5.1.2 and 6.1.2. For a detailed example, please see Chapter 7.

An application form must be written in Japanese; however, an address, name and contact information may be written in a foreign language. Documents to be attached to the application form must be written in Japanese or English. For English documents, Japanese translations must be attached. If, due to any special circumstance, the applicant cannot submit attached documents in Japanese or English, documents in another language, together with the Japanese translation thereof, may be submitted.

3. Permission relating to launching of spacecraft, etc.

[Permission relating to launching of spacecraft, etc.]

Article 4 of the Act (Permission)

- (1) A person who intends to implement the launching of spacecraft, etc. using a launch site located in Japan or onboard a ship or aircraft with Japanese nationality must obtain permission from the Prime Minister for each instance of launching.
- (2) A person who intends to obtain permission under the preceding paragraph must submit a written application to the Prime Minister, pursuant to the provisions of Cabinet Office Order, specifying the following information, attaching the documents specified by Cabinet Office Order:

Article 5 of the Regulation (Application, etc. for Permission Related to Launching of Spacecraft, etc.)

- (1) A person who intends to obtain the permission under Article 4, paragraph (1) of the Act must submit a written application using Form 1 to the Prime Minister.
- (2) The following documents must be attached to the written application under the preceding paragraph:

If the permission related to the launching of spacecraft, etc. is granted, a notice to that effect is provided, and a permission certificate for the launching of a spacecraft, etc. is issued. Refrain from making the permission certificate available to the public by such way as posting it on a website, so as to prevent forgery, etc.

Even the permission is granted, the operator may not implement the launching of a spacecraft, etc. unless the operator has taken security measures for compensation for damages.

3.1. Written application for permission

3.1.1. Information items to be entered in the application form and guides for preparation

A person who intends to obtain permission related to the launching of a spacecraft, etc. needs to submit a written application (Form 1) containing the following information.

If any document, etc. already submitted to another organization contains the following information, such document can be used as an attachment by indicating the relevant portion.

- (i) the address, name and contact information
- (ii) the design or type certification number of the launch vehicle
- (iii) the place, design and facility of launch site or compliance certification number
- (iv) the launch plan
- (v) the type, name of vehicle and serial number of the launch vehicle
- (iv) number of spacecraft to be loaded on the launch vehicle, as well as the names, purposes and methods of use of the respective spacecraft
- (vii) names of officers or employees in charge of business with respect to the launching of spacecraft, etc.
- (viii) whether the applicant falls under any of the grounds for disqualification under Article 5 of the Act

The following is the guideline on these information items.

(i) the address, name and contact information

- If the person who intends to implement the launching of a spacecraft, etc. is an individual:
 - Write the name and address as stated in the residence record.
 - If the applicant is a foreign national, write the address and name as stated in a document issued by the relevant foreign government or a document equivalent thereto.
- If the person who intends to implement the launching of a spacecraft, etc. is a corporation:
 - State the corporation name and address as stated in the certificate of registered information.
 - If the applicant is a foreign corporation, write the name and head office or principal office of the corporation as stated in a document issued by the relevant foreign government or competent international organization or a document equivalent thereto.

For contact information, state the address, name, corporation name, section in charge, person in charge, etc. to enable receiving of mail.

(ii) the design or type certification number of the launch vehicle

If the launch vehicle has not obtained a type certification for a launch vehicle, describe the design of the launch vehicle in Attachment 1 to Form 1.

If a launch vehicle which has obtained a type certification is to be used, write the type certification number. In this case, it is not necessary to submit Attachment 1 to Form 1.

(iii) the place, design and facility of launch site or compliance certification number

If the launch site has not obtained a compliance certification for a launch site, describe the location, design and facility of the launch site in Attachment 2 to Form 1.

If a launch site which has obtained a type certification is to be used, write the compliance certification number. In this case, it is not necessary to submit Attachment 2 to Form 1.

(iv) the launch plan

Fill in the necessary information in Attachment 3 to Form 1, based on Chapter 6 of the Guidelines on Permission Relating to Launching of Spacecraft, etc.

(v) the type, name of vehicle and serial number of the launch vehicle

➤ Type of launch vehicle

"Type of launch vehicle" means the name indicating the type of launch vehicle regardless of the configuration of vehicles (e.g. whether the vehicle has an auxiliary booster).

For example, for existing launch vehicles, the types of launch vehicle are "H-IIA launch vehicle," "Epsilon launch vehicle," etc.

No name which is offensive or would constitute a trademark infringement is to be used.

➤ Name of vehicle

"Name of vehicle" means the name which differs depending on the configuration of vehicles.

For example, for an H-IIA launch vehicle, the name of vehicle is H2A202 Type, H2A204 Type, etc.

No name which is offensive or which would constitute a trademark infringement is to be used.

➤ Serial number

For the serial number, assign a number, alphabetical character, etc. to the same type of launch vehicle so as to avoid any overlapping.

(vi) number of spacecraft to be loaded on the launch vehicle, as well as the names, purposes and methods of use of the respective spacecraft

➤ Number of spacecraft

State the number of spacecraft to be loaded on the launch vehicle.

➤ Name of spacecraft

State the names of spacecraft to be loaded on the launch vehicle.

No name which is offensive or which would constitute the trademark infringement is to be used.

➤ Purposes and methods of use

Refer to 6.1.1(v) of this Manual to describe the purpose and methods of use of spacecraft to be loaded on the launch vehicle.

If, at the time of the application, the applicant intends to replace the payload with dummy mass, the applicant is required to state the intention and make a notification upon the replacement. If the applicant replaces the payload with dummy mass without this statement, the applicant needs to obtain permission to make changes.

(vii) names of officers or employees in charge of business with respect to the launching of spacecraft, etc.

State the names and addresses of officers or employees as stated in their residence certificates.

If the applicant is a corporation, state the names and addresses of officers or employees as stated in their residence records.

Here, "employees" means employees of an applicant having authority and responsibilities for the applicant's business with respect to the launching of a

spacecraft, etc. (Article 6 of the Regulation), for example, the chief of the section in charge of the business of launching.

(viii) whether the applicant falls under any of the grounds for disqualification under Article 5 of the Act

A person who falls under any of the following grounds is not eligible to obtain permission related to the launching of a spacecraft, etc. Check the box to indicate whether the applicant falls under any of these grounds.

Article 5 of the Act (Grounds for Disqualification)

A person who falls under any of the following items may not obtain permission under paragraph (1) of the preceding Article:

- (i) a person who has violated the provisions of this Act or an order based on this Act or the laws and regulations of a foreign country (meaning countries or regions outside Japan; the same applies hereinafter) equivalent thereto, and has been sentenced to a fine or severer punishment (including a punishment under the laws and regulations of a foreign country equivalent thereto), and for whom three years have not elapsed since the date on which execution of the sentence was completed or since the date on which that person ceased to be subject to the execution of the sentence;
- (ii) a person whose permission has been rescinded pursuant to Article 12, and for whom three years have not elapsed since the date of that rescission;
- (iii) an adult ward or a person who is treated in the same manner under the laws and regulations of a foreign country;
- (iv) a corporation whose officers engaged in the business thereof or employees specified by Cabinet Office Order fall under any of the preceding three items; and
- (v) an individual whose employees specified by Cabinet Office Order fall under any of items (i) through (iii).

3.1.2. Attachments

A person who intends to obtain permission related to the launching of a spacecraft, etc. is required to submit a written application referred to in 3.1.1, together with the following documents (Article 5, paragraph (2) of the Regulation).

- With both type certification and compliance certification
 - I. Documents pertaining to the applicant
- With type certification, but without compliance certification
 - I. Documents pertaining to the applicant
 - II. Documents necessary in relation to a launch site without compliance certification
- Without type certification or compliance certification
 - I. Documents pertaining to the applicant
 - II. Documents necessary in relation to a launch site without compliance certification
 - III. Documents necessary in relation to a launch vehicle without type certification

The following is the guideline on these documents.

I. Documents pertaining to the applicant

- If the applicant is an individual, the following documents:
 - 1) A copy of the resident record or a document in lieu thereof
This is limited to a certificate containing the registered domicile (or, in the case of a foreign national, the person's nationality, etc. provided in Article 30-45 of the Residential Basic Book Act (Act No. 81 of 1967)).
 - 2) The following documents related to employees:
a copy of the resident record or a document in lieu thereof
- If the applicant is a corporation, the following documents:
 - 1) Its articles of incorporation and certificate of registered information, or a document equivalent thereto;
If the applicant is a foreign corporation, submit a document issued by the relevant foreign government or competent international organization or a document equivalent thereto that contains the name and head office or principal office of the corporation.
 - 2) The following documents related to the officers and employees as provided in Article 5, item (iv) of the Act:
a copy of the resident record or a document in lieu thereof

II. Documents necessary in relation to launch site without compliance certification

- 1) A document certifying that the launch site complies with the type-specific site safety standard
See 5.1.2 (ii) of the Manual.
- 2) A document describing the flight termination measures or any other methods of ensuring the safety of the vicinity of the trajectory and launch site of the launch vehicle (in relation to the launch site).
See 5.1.1 (vi) of the Manual.
- 3) A document describing the technical conditions for ensuring the compliance of the launch vehicle and launch site, and evidencing the compliance with the conditions (in relation to the launch site).
See 5.1.2 (iii) of the Manual.

III. Documents necessary in relation to a launch vehicle without type certification

- 1) A document certifying that the design of the launch vehicle complies with the launch vehicle safety standard
See 4.1.2 (ii) of the Manual.
- 2) A document describing the flight termination measures or any other methods of ensuring the safety of the vicinity of the trajectory and launch site of the launch vehicle (in relation to the launch vehicle)
See 4.1.1 (iii) of the Manual.
- 3) A document describing the technical conditions for ensuring the compliance of the launch vehicle and launch site (in relation to the launch vehicle)
See 4.1.4 (iv) of the Manual.
- 4) A document describing the flight records or test results of the launch vehicle
See 4.1.2 (iii) of the Manual.
- 5) A document describing the results of assessment of reliability of the launch vehicle
See 4.1.2 (iv) of the Manual.
- 6) A document describing the method of verification that the launch vehicle complies with its design
See 4.1.2 (v) of the Manual.

3.2. Change related to permission

[Permission relating to the launching of spacecraft, etc.]

Article 7 of the Act (Permission, etc. Related to Change)

- (1) When a person who obtained the permission under Article 4, paragraph (1) (hereinafter referred to as a "launch operator") intends to change any matter set forth in items (ii) through (v) of paragraph (2) of that Article (including when a change has been made to the launch vehicle safety standard and the design of the launch vehicle for which the permission was granted no longer satisfies the launch vehicle safety standard, and when a change has been made to the type-specific site safety standard and the launch site for which the permission was granted no longer satisfies the type-specific site safety standard), the person must obtain permission from the Prime Minister pursuant to the provisions of Cabinet Office Order; provided, however, that this does not apply to minor changes specified by Cabinet Office Order.
- (2) When there has been a change to any of the items set forth in Article 4, paragraph (2), item (i) or (vi), or any minor change specified by Cabinet Office Order as referred to in the proviso to the preceding paragraph, a launch operator must make a notification to the Prime Minister to that effect without delay.
- (3) The provisions of the preceding Article apply mutatis mutandis to the permission under paragraph (1).

Article 9 of the Regulation (Application, etc. for Permission Related to Change)

- (1) When a launch operator intends to make any change to the matters set forth in Article 4, paragraph (2), items (ii) through (v) of the Act, the launch operator must obtain permission for the change from the Prime Minister, by submitting a written application using Form 3 attaching a document relating to the changed items contained in the documents set forth in Article 5, paragraph (2), item (ii) and (iii) and a copy of the permission certificate under paragraph (4) of that Article pertaining to the launching of the spacecraft, etc.
- (2) When the Prime Minister grants the permission to make any changes under Article 7, paragraph (1) of the Act, the Prime Minister is to notify the launch operator to that effect, order the launch operator to return the permission certificate under Article 5, paragraph (4) pertaining to the launching of the spacecraft, etc. and reissue the permission certificate using Form 2.
- (3) The minor changes specified by Cabinet Office Order, as referred to in the proviso to Article 7, paragraph (1) of the Act, are changes that would not result in a substantial change in the matters set forth in Article 4, paragraph (2), items (ii) through (v) of the Act.

(4) When a launch operator intends to make a notification under Article 7, paragraph (2) of the Act, the launch operator must submit to the Prime Minister a written notification using Form 4, attaching a document pertaining to the changed matters and a copy of the permission certificate referred to in Article 5, paragraph (4) pertaining to the launching of the spacecraft, etc.

If any change occurs to the information stated in the application documents, it is necessary to submit an application for permission or a notification of change as follows, depending on the items to be changed and the nature of change. For information on the matters requiring an application for permission or a notification as well as specific examples thereof, see Chapter 7 of Guidelines on Permission Related to Launching of Spacecraft, etc.

3.2.1. Application for permission related to change

An operator that intends to make any change to any of the following matters is required to submit an application for permission to make a change, unless the change would not result in any substantial change.

- the design or type certification number of the launch vehicle
- the place, design and facility of the launch site or compliance certification number
- the launch plan
- the number of spacecraft to be loaded on the launch vehicles, as well as the purposes and methods of use of the respective spacecraft

An applicant for permission to make change is required to submit the following documents (Article 9, paragraph (1) of the Regulation).

- 1) a written application for permission to make change
- 2) documents related to the changed matters
- 3) a copy of the permission certificate

- 1) a written application for permission to make change
Submit a written application stating the matters pertaining to the change (Form 3).
- 2) documents related to the changed matters
Submit the documents relating to the changed matters contained in the documents specified in II. and III. of 3.1.2.
- 3) a copy of the permission certificate

Submit a copy of the permission certificate for the launching of a spacecraft, etc. issued.

If the permission is granted, a notice to that effect will be provided. In this case, the applicant will receive a new permission certificate, so the applicant is requested to return the existing permission certificate.

3.2.2. Notification of change

An operator that intends to make any change to any of the following matters is required to submit a notification of change.

- name and address of the launch operator
- the type, name of vehicle and serial number of the launch vehicle
- the names of spacecraft to be loaded on the launch vehicle
- names of officers or employees in charge of business with respect to the launching of a spacecraft, etc.
- whether the operator falls under any of the disqualification grounds under Article 5 of the Act
- the matters which require the application for permission under 3.2.1, that do not involve substantial changes

A notifier of change is required to submit the following documents (Article 9, paragraph (4) of the Regulation).

- | |
|---|
| <ol style="list-style-type: none">1) notification of change2) documents related to the changed matters3) a copy of the permission certificate |
|---|

1) notification of change

Submit a written notification stating the matters related to change (Form 4).

2) documents related to the changed matters

Submit the documents relating to the changed matters contained in the documents specified in I, II and III of 3.1.2.

3) a copy of the permission certificate

Submit a copy of the permission certificate for the launching of a spacecraft, etc. issued.

In the case of a notification of change, a new permission certificate will not be issued,

and it is not necessary to return the permission certificate already issued.

3.3. Succession

[Permission relating to the launching of a spacecraft, etc.]

Article 10 of the Act (Succession)

- (1) When a launch operator transfers the business with respect to the launching of spacecraft, etc. permitted under Article 4, paragraph (1), if the transferrer and the transferee have obtained authorization on that transfer from the Prime Minister in advance pursuant to the provisions of Cabinet Office Order, the transferee succeeds to the status of the launch operator under the provisions of this Act.
- (2) When a corporation that is a launch operator is to be extinguished by a merger and if the merger has been authorized in advance by the Prime Minister pursuant to the provisions of Cabinet Office Order, a corporation surviving the merger or a corporation established as a result of the merger succeeds to the status of the launch operator under the provisions of this Act.
- (3) When a corporation that is a launch operator has the business with respect to the launching of spacecraft, etc. permitted under Article 4, paragraph (1) succeeded to by corporate split, and that corporate split has been authorized in advance by the Prime Minister pursuant to the provisions of Cabinet Office Order, a corporation which succeeded to the business as a result of the corporate split succeeds to the status of the launch operator under the provisions of this Act.
- (4) Articles 5 and 6 (limited to the part concerning item (iii) (limited to the part concerning the ability to execute the launch plan)) apply mutatis mutandis to the authorization under the preceding three paragraphs.
- (5) When a launch operator transfers its business with respect to the launching of spacecraft, etc. permitted under Article 4, paragraph (1), or when a corporation that is a launch operator is extinguished by a merger or has the business succeeded to through a corporate split, if a disposition to refuse the authorization under paragraphs (1) through (3) is rendered (if an application for the authorization is not submitted, when the transfer of business, merger or corporate split takes place), the permission under Article 4, paragraph (1) ceases to be effective.

Article 10 of the Regulation (Application for Authorization on Succession of Status of Launch Operator)

- (1) A person who intends to obtain authorization under Article 10, paragraph (1) of the Act must submit to the Prime Minister a written application using Form 5,

attaching the following documents and a copy of the permission certificate under Article 5, paragraph (4) pertaining to the transferrer:

- (2) A person who intends to obtain authorization under Article 10, paragraph (2) of the Act must submit to the Prime Minister a written application using Form 6, attaching the following documents and a copy of the permission certificate under Article 5, paragraph (4) for the corporation whose business was succeeded to:
- (3) A person who intends to obtain authorization under Article 10, paragraph (3) of the Act must submit to the Prime Minister a written application using Form 7, attaching the following documents and a copy of the permission certificate under Article 5, paragraph (4) for the corporation whose business was succeeded to:

If the succession is authorized and any change occurs to the launch plan (excluding organizational structure for the execution of launch plan), an operator is required to submit an application for permission or a notification of change.

3.3.1. Business transfer

A launch operator that intends to transfer its business with respect to the launching of spacecraft, etc. is required to submit the following documents (Article 10, paragraph (1) of the Regulation).

- 1) a written application for authorization (Form 5)
- 2) a document set forth in Article 5, paragraph (2), item (i) of the Regulation in relation to the transferee (a document related to the applicant)
- 3) a document evidencing that the transferee has a sufficient ability to execute the launch plan (a document related to the organizational structure for executing the launch plan)
- 4) a copy of the contract for the transfer and acquisition
- 5) if the transferrer or the transferee is a corporation, the minutes of resolution of a general meeting of shareholders or general meeting of members or a written consent of members with unlimited liability or all members on the transfer or acquisition, or a document evidencing the decision on the transfer or acquisition
- 6) a copy of the permission certificate

3.3.2. Merger

If a corporation that is a launch operator is to be extinguished by a merger, and if it intends to have a corporation surviving the merger or a corporation to be

incorporated in the merger succeed to the business with respect to the launching of spacecraft, etc., the operator is required to submit the following documents (Article 10, paragraph (2) of the Regulation).

- 1) a written application for authorization (Form 6)
- 2) a document stating the method and conditions of the merger
- 3) a document set forth in Article 5, paragraph (2), item (i)(b) pertaining to the corporation surviving the merger or corporation to be incorporated in the merger (a document related to the applicant)
- 4) a document evidencing that the corporation surviving the merger or corporation to be incorporated in the merger has a sufficient ability to execute the launch plan (a document related to the organizational structure for executing the launch plan)
- 5) a copy of the merger contract and a statement explaining the merger ratio
- 6) the minutes of resolution of a general meeting of shareholders or general meeting of members or a written consent of members with unlimited liability or all members on the merger, or a document certifying the decision on the merger
- 7) a copy of the permission certificate

3.3.3. Corporate split

If a corporation that is a launch operator intends to have its business with respect to the launching of spacecraft, etc. succeeded to by a corporate split, it is required to submit the following documents (Article 10, paragraph (3) of the Regulation).

- 1) a written application for authorization (Form 7)
- 2) a document stating the method and conditions of the corporate split
- 3) a document set forth in Article 5, paragraph (2), item (i)(b) pertaining to the corporation succeeding to the business with respect to the launching of spacecraft, etc. by the corporate split (a document related to the applicant)
- 4) a document evidencing that the corporation succeeding to the business with respect to the launching of spacecraft, etc. by the corporate split has a sufficient ability to execute the launch plan (a document related to the organizational structure for executing the launch plan)
- 5) a copy of a corporate split contract (for the incorporation-type corporate split, a corporate split plan) and a statement explaining a split ratio
- 6) the minutes of resolution of a general meeting of shareholders or general meeting of members or a written consent of members with unlimited liability or all members

on the corporate split, or a document evidencing the decision on the corporate split
7) a copy of the permission certificate

3.4. Notification of expiration of permission

[Permission relating to the launching of a spacecraft, etc.]

Article 11 of the Act (Expiration of Permission Due to Death or Other Reasons)

In addition to the case provided in paragraph (5) of the preceding Article, if a launch operator falls under any of the following items, the permission under Article 4, paragraph (1) ceases to be effective; in this case, the persons respectively specified in these items must notify the Prime Minister to that effect within thirty days from the date when they fall under the relevant item:

- (i) when the person has deceased: the heir;
- (ii) when the corporation has dissolved due to an order commencing bankruptcy proceedings: its bankruptcy trustee;
- (iii) when the corporation has dissolved for reasons other than a merger or an order commencing bankruptcy proceedings: its liquidator; and
- (iv) when the launching of spacecraft, etc. has been completed: an individual who was formerly the launch operator, or an officer representing the corporation which was formerly the launch operator.

Article 11 of the Regulation (Notification of Death or Other Reasons)

- (1) When the person specified by the items of Article 11 of the Act makes a notification under that Article, the person must submit a written notification using Form 8 to the Prime Minister.
- (2) If any of items (i) through (iii) of Article 11 of the Act is applicable, a permission certificate under Article 5, paragraph (4) pertaining to the launching of the spacecraft, etc. must be attached to the written notification under the preceding paragraph.

When the launching of a spacecraft, etc. is completed, the permission related to the launching of the spacecraft, etc. ceases to be effective. The former launch operator is required to submit the necessary documents within thirty days from the day of completion of the launching.

- The operator has completed the launching of a spacecraft, etc.
Notifier: an individual who was a launch operator or an officer representing the corporation which was a launch operator
Documents to be submitted: a written notification (Form 8)

When a launch operator falls under any of the following matters, the permission related to the launching of the spacecraft, etc. ceases to be effective. The persons specified in the respective items are required to submit the necessary documents within thirty days from the day when the person falls under the relevant item.

- If an individual that was a launch operator is dead
Notifier: the heir
Documents to be submitted: a written notification (Form 8) and an original of the permission certificate
- If a corporation that was formerly a launch operator dissolves due to an order commencing bankruptcy proceedings
Notifier: the trustee in bankruptcy
Documents to be submitted: a written notification (Form 8) and an original of the permission certificate
- If a corporation that was formerly a launch operator dissolves due to any reason other than a merger or order commencing bankruptcy proceedings
Notifier: the liquidator
Documents to be submitted: a written notification (Form 8) and an original of the permission certificate

4. Type certification for launch vehicle

[Type certification for launch vehicle]

Article 13 of the Act (Type Certification)

- (1) The Prime Minister grants a type certification for the design of a launch vehicle upon application.
- (2) A person who intends to obtain a type certification referred to in the preceding paragraph must submit a written application to the Prime Minister, pursuant to the provisions of Cabinet Office Order, specifying the following information, attaching a document certifying that the design of the launch vehicle complies with the launch vehicle safety standard and other documents specified by Cabinet Office Order.

Article 13 of the Regulation (Application, etc. for Type Certification for Design of Launch vehicle)

- (1) A person who intends to obtain a type certification under Article 13, paragraph (1) of the Act must submit a written application using Form 9 to the Prime Minister.
- (2) The following documents must be attached to the written application under the preceding paragraph:

If the type certification for a launch vehicle is granted, a notice to that effect is provided, and a type certificate is issued. Refrain from making the type certificate available to the public by such way as posting it on a website, so as to prevent forgery, etc.

4. Application for type certification

4.1.1. Information items to be entered in application form and guide for preparation

A person who intends to obtain a type certification for a launch vehicle needs to submit a written application (Form 9) containing the following information.

If any document, etc. already submitted to another organization contains the following information, it can be used as an attachment by indicating the relevant portion.

- (i) the address, name and contact information
- (ii) design of the launch vehicle
- (iii) the flight termination measures or other means of ensuring the safety of the vicinity of the trajectory and launch site of the launch vehicle

(iv) the technical conditions for ensuring the compliance of the launch vehicle and launch site

The following is the guideline on these information items.

(i) the address, name and contact information

- If a person who intends to obtain a type certification for a launch vehicle is an individual:
 - Write the name and address as stated in the residence record.
 - If the applicant is a foreign national, write the address and name as stated in a document issued by the relevant foreign government or a document equivalent thereto.

- If a person who intends to obtain a type certification for a launch vehicle is a corporation:
 - State the corporation name and address as stated in the certificate of registered information.
 - If the applicant is a foreign corporation, write the name and head office or principal office of the corporation as stated in a document issued by the relevant foreign government or competent international organization or a document equivalent thereto.

For contact information, state the address, name, corporation name, section in charge, person in charge, etc. to enable the receiving of mail.

(ii) design of the launch vehicle

Provide an overview of the system and launching capability of launch vehicle, and an overview of the functions related to the flight safety operation, using Attachment 1 to Form 1.

An applicant may submit a single application for a type certification for a launch vehicle in relation to two or more configurations of vehicles (e.g. whether the launch vehicle has an auxiliary booster). In this case, if the outcomes of design differ depending on the configurations of vehicles, such as the flight capability, each of these designs need to conform to the launch vehicle safety standard.

Determine and describe the payload mass, orbit and effect of season of launching considering the anticipated range.

(iii) the flight termination measures or other means of ensuring the safety of the vicinity of the trajectory and launch site of the launch vehicle

Describe the approach, specific methods and verification methods for ensuring the safety of the vicinity of the launch site from the lift-off until putting the spacecraft into orbit, in relation to its normal operation, contingent situations and pre-launching. Add attachments to provide additional, detailed explanation if necessary. For flight termination measures, describe the means to terminate the flight and the entire configuration.

(iv) the technical conditions for ensuring the compliance of the launch vehicle and launch site

Describe the technical conditions relating to the interface between the launch vehicle and launch site as well as the method for verifying their compatibility. Add attachments to provide additional, detailed explanation if necessary.

The technical conditions for the launch vehicle and launch site differ depending on their combinations. The following is an example:

- Specification of the physical and electronic interface between the launch site and launch vehicle, as well as the interface drawing.
- Specification of the launcher of the launch site for the determination of the trajectory at the initial stage of lift-off
- Mechanisms for the lift-off count down sequence and emergency suspension of a launch vehicle

4.1.2. Attachments

A person who intends to obtain a type certification for a launch vehicle is required to submit a written application referred to in 4.1.1, together with the following documents (Article 13, paragraph (2) of the Regulation).

- (i) documents pertaining to the applicant
- (ii) a document certifying that the design of the launch vehicle complies with the launch vehicle safety standard
- (iii) a document describing the flight records or test results of the launch vehicle
- (iv) a document describing the results of assessment of reliability of the launch vehicle
- (v) a document describing the method of verification that the launch vehicle complies with its design

The following is the guideline on these documents.

(i) documents pertaining to the applicant

- If the applicant is an individual, a copy of the resident record or a document in lieu thereof

This is limited to a certificate containing the registered domicile (or, in the case of a foreign national, the person's nationality, etc. provided in Article 30-45 of the Residential Basic Book Act (Act No. 81 of 1967)).

- If the applicant is a corporation, its articles of incorporation and certificate of registered information, or a document equivalent thereto

If the applicant is a foreign corporation, submit a document issued by the foreign government or competent international organization or a document equivalent thereto that contains the name and head office or principal office of the corporation.

(ii) a document certifying that the design of the launch vehicle complies with the launch vehicle safety standard

Refer to Chapter 6 of the Guidelines on Type Certification for Launch Vehicles and indicate a design drawing, system block drawing, analytical findings, test results, etc. evidencing the conformity of the design of the launch vehicle with the launch vehicle safety standard (Article 7 of the Regulation). The following are examples. The applicant may use existing documents, such as design drawings, by making references to the relevant part.

- Flight capability
 - flight plan

- the orbit to be inserted, the spacecraft to be loaded
- system configuration of the launch vehicle and allocation of propellant
- sequence of events for the flight
- the profiles of nominal trajectory and dispersed trajectory
- flight safety operation
- also consider the feasibility of flight safety, including the position of the planned impact area for separated objects
- conditions for the calculation of the nominal trajectory and dispersed trajectory
 - including the conditions of inputting information on anticipated launch pad (e.g. positional coordinate, altitude), vehicle (e.g. mass, propulsion capacity, thrust pattern), environmental conditions (e.g. wind, atmospheric density), as well as explanation of the relevant data.
 - Nominal trajectory and dispersed trajectory, the source of dispersion of data (dispersion of the conditions including thrust and wind)
 - data evidencing that the flight will be controlled in an appropriate way
 - in case of an application for a type certification for two or more configurations of vehicles (e.g. whether the launch vehicle has an auxiliary booster), the results of design for each configuration of vehicle
- Measure for preventing the failure and malfunction of ignition device, etc.
 - Outline of system of ignition device, etc. of the launch vehicle
 - Failure tolerant design
 - block diagram *including information on power system and control line
 - result of verification test of failure tolerant design *including the conditions for the test
 - Shield design of pyrotechnics
 - specifications of pyrotechnics and components such as shields
 - description of pyrotechnic igniting mechanisms
 - block diagram *including information on power system and control line
 - results of verification of tests
 - results of verification of electromagnetic compatibility *Also consider the margin for maximum non-ignition energy
- Function for flight safety operation
 - System overview of data measurement and transmission for flight safety operation
 - information on functions, main specifications and performances of each

component (e.g. frequency band, transmission power, transmission cycle, modulation methods and error budget)

- block diagram *including power system
- positions and instrumentation information on equipment onboard the vehicle *all related equipment, including a transceiver and antenna
- specifications of data interface with the ground station (e.g. data format, frequency, transmission cycle, delay)
- results of function test and RF link test

➤ Function for flight termination

- overview of flight termination functions system (e.g. command receiver and equipment for flight termination) *including a description of flight termination means
- information on functions, main specifications and performances of each component (e.g. frequency band, transmission power, transmission cycle, modulation methods and error budget)
- description of flight termination mechanism *status, transition of status and flow of data (control signals) for each stage of receiving a command, activation of flight termination mechanisms, and termination of the flight.
- description of the destruction mechanism for inadvertent separation *a description of a mechanism for an automatic termination of the flight in case of the inadvertent separation of a stage loaded with a command receiver when the flight termination is to be executed by way of receiving a signal from the ground, or of a stage other than the stage loaded with a device for determination when the flight termination is to be executed by the launching vehicle.
- block diagram *including power system
- positions and instrumentation information on equipment onboard the vehicle *all related equipment, including a receiver, antenna and flight termination mechanisms
- failure tolerant design *when it is used as a protection measure against an unexpected activation
 - block diagram *including information on control line
 - results of verification test of failure tolerant design *including the conditions for the test
- shield design of pyrotechnics *in cases of a flight termination system using pyrotechnics

- block diagram
- results of verification of electromagnetic compatibility *Also consider the margin for maximum non-ignition energy
- specifications of data interface with the ground station (e.g. data format, encryption, health check, delay)
- results of function test and RF link test
- results of analysis of shape of fragments caused by the termination of flight (e.g. status of vehicle and fragments after the termination of flight)
- result of analysis of expected casualties (Ec)
- Reliability and redundancy of safety-critical systems, etc.
 - results of reliability analysis and tests
 - block diagram *including power system, and can be omitted in case of duplication with the equipment indicated above.
 - positions and instrumentation information on equipment onboard the vehicle *can be omitted in case of duplication with the equipment indicated above.
 - results of function test and RF link test
- Mitigation of the generation of orbital debris relating to the separation of spacecraft, etc.
 - design to mitigate the generation of debris
 - overview of the system
 - block diagram
 - test results
- Mitigation of the generation of orbital debris relating to the orbital stage
 - design to mitigate the generation of debris
 - overview of the system
 - block diagram
 - test results
 - operation plan
 - in cases of reentry after the completion of the mission, the results of performance test, assessment of ground risks and operation plan.

(iii) a document describing the flight records or test results of the launch vehicle

For the same type of launch vehicle as one which was successfully launched in the past, submit a document containing the following information on the past flight

record. In addition, submit test results, etc. evidencing the performance of a solid rocket engine and liquid rocket motor.

- total number of occasions of launch
- date of launch, launch site, information on payload (name, mass and orbit), orbit insertion error, whether the vehicle was successfully launched.
- whether there was any material change in the safety-critical system, etc. since the commencement of the launch of the same type of launch vehicle, and if so, the outline and reasons for the change.
- other matters for special attention (e.g. result of investigation of the cause of critical failure and measures taken to prevent recurrence)

For a launch vehicle which has no record of launching, describe the conditions and results of an engine combustion test and flight test for a similar launch vehicle (a non-orbital flight is also acceptable).

(iv) a document describing the results of assessment of reliability of the launch vehicle

Analyze the reliability of the launch vehicle using appropriate evaluation methods, in relation to various fields including avionics, propulsion system and structural body, and describe the probability of an event requiring the termination of flight of launch vehicle for each launch phase.

If the flight termination involves the destruction of a liquid rocket engine, solid rocket motor, etc., describe the size and dispersion of fragments after the destruction which would be necessary for the calculation of expected casualties (Ec).

(v) a document describing the method of verification that the launch vehicle complies with its design

Explain the means for verification that the launch vehicle actually manufactured complies with its design, including an inspection manual.

4.2. Change of certification

[Type certification for a launch vehicle]

Article 14 of the Act (Change of Design, etc.)

(1) When a person who obtained a type certification under paragraph (1) of the

preceding Article intends to change any matter set forth in item (ii) of paragraph (2) of that Article (including when a change has been made to the launch vehicle safety standard and the design of the launch vehicle for which the type certification was granted no longer satisfies the launch vehicle safety standard), the person must obtain authorization from the Prime Minister pursuant to the provisions of Cabinet Office Order; provided, however, that this does not apply to minor changes specified by Cabinet Office Order.

- (2) When there has been a change to any of the items set forth in Article 13, paragraph (2), item (i) or (iii), or any minor change specified by Cabinet Office Order as referred to in the proviso to the preceding paragraph, the person who obtained a type certification under Article 13, paragraph (1) must make a notification to that effect to the Prime Minister without delay.
- (3) The provisions of paragraph (3) of the preceding Article apply mutatis mutandis to the approval under paragraph (1).

Article 14 of the Regulation (Application, etc. for Change of Designs, etc.)

- (1) When a person who obtained a type certification under Article 13, paragraph (1) of the Act intends to make any changes to the matters set forth in item (ii) of paragraph (2) of that Article, the person must obtain authorization for the change from the Prime Minister, by submitting a written application using Form 11 attaching the following documents:
 - (i) a document relating to the changed items contained in the documents set forth in items (ii) through (iv) of paragraph (2) of the preceding Article;
 - (ii) a document certifying that the changed design of the launch vehicle satisfies the launch vehicle safety standard provided in Article 7; and
 - (iii) a copy of the type certificate under Article 13, paragraph (4) of the Act.
- (2) When the Prime Minister grants authorization to make any changes under Article 14, paragraph (1) of the Act, the Prime Minister is to notify the person who obtained the type certification under Article 13, paragraph (1) of the Act to that effect, order the person to return the type certificate under paragraph (4) of that Article pertaining to the type certification for the design of the launch vehicle and reissue a type certification using Form 10.
- (3) The minor changes specified by Cabinet Office Order, as referred to in the proviso to Article 14, paragraph (1) of the Act, are changes that would not result in a substantial change in the matters set forth in Article 13, paragraph (2), item (ii) of the Act.

(4) When a person who obtained a type certification under Article 13, paragraph (1) of the Act intends to make a notification under Article 14, paragraph (2) of the Act, the person must submit to the Prime Minister a written notification using Form 12, attaching a document pertaining to the changed matters and a copy of the type certificate referred to in Article 13, paragraph (4) of the Act.

If any change occurs to the information stated in the application documents, it is necessary to submit an application for authorization or a notification of change as follows, depending on the items to be changed and the nature of change. For information on the matters requiring an application for authorization or a notification as well as specific examples thereof, see Chapter 7 of Guidelines on Type Certification for Launch Vehicles.

4.2.1. Application for authorization of change

An operator that intends to make any change to any of the following matters is required to submit an application for authorization related to change, unless the change would not result in any substantial change.

- design of the launch vehicle

An applicant for authorization related to change is required to submit the following documents (Article 14, paragraph (1) of the Regulation).

- 1) a written application for permission to make change
- 2) documents related to the changed matters
- 3) a document certifying that the changed design of the launch vehicle satisfies the launch vehicle safety standard
- 4) a copy of the type certificate

- 1) a written application for permission to make change
Submit a written application stating the matters pertaining to the change (Form 11).
- 2) documents related to the changed matters
Submit the documents relating to the changed matters contained in the documents specified in (iii) through (v) of 4.1.2.
- 3) a document certifying that the design of the launch vehicle complies with the launch vehicle safety standard
Submit a document referred to in 4.1.2(ii) after the change.

4) a copy of the type certificate

Submit a copy of the type certificate issued.

If the authorization is granted, a notice to that effect will be provided. In this case, the applicant will receive a new type certificate, so the applicant is requested to return the existing type certificate.

4.2.2. Notification of change

An operator that intends to make any change to any of the following matters is required to submit a notification of change.

- name of person who obtained the type certification
- the flight termination measures or other means of ensuring the safety of the vicinity of the trajectory and launch site of the launch vehicle
- the technical conditions for ensuring the compliance of the launch vehicle and launch site
- the matters which require the application for authorization under 4.2.1 and do not involve substantial changes

The operator is required to submit the following documents (Article 14, paragraph (4) of the Regulation).

- 1) a written notification of change
- 2) documents related to the changed matters
- 3) a copy of the type certificate

1) a written notification of change

Submit a written notification stating the matters related to change (Form 12).

2) documents related to the changed matters

Submit the documents relating to the changed matters contained in the documents specified in 4.1.2.

3) a copy of the type certificate

Submit a copy of the type certificate issued.

In the case of a notification of change, a new type certificate will not be issued, and it is not necessary to return the type certificate already issued.

5. Compliance certification for launch site

[Compliance certification for a launch site]

Article 16 of the Act (Compliance Certification)

- (1) The Prime Minister grants a compliance certification with respect to a launch site located in Japan or onboard a ship or aircraft with Japanese nationality, according to the type of launch vehicle related to the launching of spacecraft, etc. to be implemented using the relevant launch site (limited to a type of launch vehicle whose design has obtained a type certification under Article 13, paragraph (1) or foreign certification), upon application.
- (2) A person who intends to obtain a compliance certification under the preceding paragraph must submit a written application to the Prime Minister, pursuant to the provisions of Cabinet Office Order, specifying the following information, attaching a document certifying that the launch site complies with the type-specific site safety standard and other documents specified by Cabinet Office Order.

Article 16 of the Regulation (Application, etc. for Compliance Certification for Launch Site)

- (1) A person who intends to obtain a compliance certification under Article 16, paragraph (1) of the Act must submit a written application using Form 13 to the Prime Minister.
- (2) The following documents must be attached to the written application under the preceding paragraph:

If the compliance certification for a launch site is granted, a notice to that effect is provided, and a launch site certificate is issued. Refrain from making the launch site certificate available to the public by such way as posting it on a website, so as to prevent forgery, etc.

5.1. Application for compliance certification

5.1.1. Information items to be entered in application form and guide for preparation

A person who intends to obtain a compliance certification for a launch site needs to submit a written application (Form 13) containing the following information.

If any document, etc. already submitted to another organization contains the following information, such document can be used as an attachment by indicating the relevant portion.

- (i) the address, name and contact information
- (ii) the place, design and facility of launch site
- (iii) the type certification number
- (iv) type
- (v) date of type certification
- (vi) the flight termination measures or other means of ensuring the safety of the vicinity of the trajectory and launch site of the launch vehicle

The following is the guideline on these information items.

(i) the address, name and contact information

- If a person who intends to obtain a compliance certification for a launch site is an individual:
 - Write the name and address as stated in the residence record.
 - If the applicant is a foreign national, write the address and name as stated in a document issued by the relevant foreign government or a document equivalent thereto.
- If a person who intends to obtain a compliance certification for a launch site is a corporation:
 - State the corporation name and address as stated in the certificate of registered information.
 - If the applicant is a foreign corporation, write the name and head office or principal office of the corporation as stated in a document issued by the relevant foreign government or competent international organization or a document equivalent thereto.

For contact information, state the address, name, corporation name, section in charge, person in charge, etc. to enable receiving of mail.

(ii) the place, design and facility of launch site

➤ "Place"

State the address of the launch site (meaning a facility equipped with a function of lifting off a launch vehicle). If facilities necessary for the launching, including radio

equipment, are located in different places, state the respective addresses.

➤ "Design and facility"

Describe the constituent elements of the launch site and show a layout drawing. Although the design and composition of a launch site differs, the following composition may be possible, for example:

- place of storage of hazardous materials including explosives
- buildings for assembling launch vehicles and spacecraft
- vicinity of launch pad
- buildings for flight safety operation

In the description, the applicant is to show that it is possible to ensure the safety of the vicinity of the launch site. For this purpose, the boundary with outside and facilities to prevent the entry of third parties are to be included in the layout drawing.

(iii) the type certification number

The compliance certification for a launch site is required for each type of launch vehicle.

State the type certification number of the launch vehicle to be launched at the launch site.

(iv) type

State the type of the launch vehicle subject to the type certification that is to be launched at the launch site.

(v) date of type certification

State the date of the type certification for the launch vehicle subject to the type certification that is to be launched at the launch site.

(vi) the flight termination measures or other means of ensuring the safety of the vicinity of the trajectory and launch site of the launch vehicle

Describe the approach, specific methods and verification methods for ensuring the

safety of the vicinity of the launch site from the launching until putting the spacecraft into orbit, in relation to its normal operation, contingent situations, and pre-launching. Add attachments to provide additional, detailed explanation.

For flight termination measures, describe the means to terminate the flight and the entire configuration.

5.1.2. Attachments

A person who intends to obtain a compliance certification for a launch site is required to submit a written application referred to in 5.1.1, together with the following documents (Article 16, paragraph (2) of the Regulation).

- (i) documents pertaining to the applicant
- (ii) a document certifying that the launch site complies with the type-specific site safety standard
- (iii) a document describing the technical conditions for ensuring the compliance of the launch vehicle and launch site, and evidencing the compliance with the conditions

The following is the guideline on these documents.

(i) documents pertaining to the applicant

- if the applicant is an individual, a copy of the resident record or a document in lieu thereof

This is limited to a certificate containing the registered domicile (or, in the case of a foreign national, the person's nationality, etc. provided in Article 30-45 of the Residential Basic Book Act (Act No. 81 of 1967)).

- if the applicant is a corporation, its articles of incorporation and certificate of registered information, or a document equivalent thereto

If the applicant is a foreign corporation, submit a document issued by the foreign government or competent international organization or a document equivalent thereto that contains the name and head office or principal office of the corporation.

(ii) a document certifying that the launch site complies with the type-specific site safety standard

Refer to Chapter 6 of the Guidelines on Compliance Certification for Launching Sites and indicate a design drawing, system block drawing, analytical findings, test results, etc. evidencing the conformity of the launch site with the type-specific site safety standard (Article 8 of the Regulation). The following are examples. The applicant may use existing documents, such as design drawings, by making references to the relevant part.

- Securing restricted areas and measures to prevent entry of third parties
 - Securing of restricted areas
 - An explanation that restricted areas can be secured.
 - Measures to prevent entry of third parties
 - Explanation of measures to prevent entry of third parties, including fences, entry and leaving management system, surveillance by guards
- Launcher
 - System overview of launcher
 - Means to ensure safety and design information
- Measure for preventing the failure and malfunction of ignition device, etc.
 - System overview of ignition device, etc. of the launch vehicle system including the launch site
 - Failure tolerant design
 - block diagram *including information on power system and control line
 - result of verification test of failure tolerant design *including the conditions for the test
 - Shield design of pyrotechnics
 - specifications of pyrotechnics and components such as shields
 - description of pyrotechnics igniting mechanisms
 - block diagram *including information on power system and control line
 - result of verification of tests
 - results of verification of electromagnetic compatibility *Also consider the margin for maximum non-ignition energy
- Function for flight safety operation
 - System overview of data measurement and transmission for the flight safety operation
 - Information on functions, main specifications and performances of each component (e.g. frequency band, transmission power, transmission cycle, modulation methods and error budget)

- Block diagram *including power system
- Specifications of data interface with the launch vehicle (e.g. data format, frequency, transmission cycle, delay)
- Results of function test and RF link test
- Function for flight termination (explanation of functions including the facilities and launch vehicle body)
 - Outline of flight termination functions system (e.g. command transmitter) *including a description of flight termination means
 - Information on functions, main specifications and performances of each component (e.g. frequency band, transmission power, transmission cycle, modulation methods and error budget)
 - a connection between ground systems and airborne flight termination functions *for example, method of verification and answer-back for system operations of the vehicle including the stages of command transmission, activation of the flight termination mechanisms and the completion of the flight termination as well as the ground systems.
 - block diagram *including power system
 - failure tolerant design *in case where it is used as a protection against an unexpected activation
 - block diagram *including control line
 - result of verification test of failure tolerant design *including the conditions for the test
 - consideration for the prevention of unexpected activation of airborne pyrotechnics
 - measures for the prevention of unexpected RF radiation
 - appropriate layout of RF link equipment.
 - ensuring a time period during which electromagnetic radiation is prohibited
 - specifications of data interface with the launch vehicle (e.g. data format, encryption, health check, delay)
 - results of function test and RF link test
 - function for data collection after the termination of flight
- Reliability and redundancy of safety-critical systems, etc.
 - results of reliability analysis and tests
 - block diagram *including power system, and can be omitted in case of duplication with the equipment indicated above.

- results of function test and RF link test

(iii) a document describing the technical conditions for ensuring the compliance of the launch vehicle and launch site, and evidencing the compliance with the conditions

Describe the technical conditions relating to the interface between the launch vehicle and launch site as well as the method for verifying their compatibility. Add attachments to provide additional, detailed explanation.

The technical conditions for the launch vehicle and launch site differ depending on their combinations. The following is an example:

- Specification of the physical and electronic interface between the launch site and launch vehicle, as well as the interface drawing.
- Specification and performance of the launcher of the launch site for the determination of the trajectory at the initial stage of lift-off
- Mechanisms for the lift-off count down sequence and emergency suspension of a launch vehicle

5.2. Change of certification

[Compliance certification for launch site]

Article 17 of the Act (Change of Location, etc. of Launch Site)

- (1) When a person who obtained a compliance certification under paragraph (1) of the preceding Article intends to change any matter set forth in item (ii) or (iv) of paragraph (2) of that Article (including the case when a change has been made to the type-specific site safety standard and the launch site for which the compliance certification was granted no longer satisfies the type-specific site safety standard), the person must obtain authorization from the Prime Minister pursuant to the provisions of Cabinet Office Order; provided, however, that this does not apply to minor changes specified by Cabinet Office Order.
- (2) When there has been a change to any of the matters set forth in Article 16, paragraph (2), item (i) or (v), or any minor changes specified by Cabinet Office Order as referred to in the proviso to the preceding paragraph, the person who obtained a compliance certification under Article 16, paragraph (1) must make a notification to that effect to the Prime Minister without delay.

- (3) The provisions of paragraph (3) of the preceding Article apply mutatis mutandis to the approval under paragraph (1).

Article 17 of the Regulation (Application, etc. for Change of Location of Launch Site and Other Matters)

- (1) When a person who obtained a compliance certification under Article 16, paragraph (1) of the Act intends to make any changes to the matters set forth in item (ii) or (iv) of paragraph (2) of that Article, the person must obtain authorization on the change from the Prime Minister, by submitting a written application using Form 15 attaching the following documents:
- (i) the document relating to the changed items set forth in the documents provided in item (ii) of paragraph (2) of the preceding Article;
 - (ii) a document certifying that the launch site after the change satisfies the type-specific site safety standard provided in Article 8; and
 - (iii) a copy of the launch site certificate under Article 16, paragraph (4) of the Act.
- (2) When the Prime Minister grants the authorization to make any changes under Article 17, paragraph (1) of the Act, the Prime Minister is to notify the person who obtained the compliance certification under Article 16, paragraph (1) to that effect, order the person to return the launch site certificate under paragraph (4) of that Article pertaining to the compliance certification for the launch site and reissue a launch site certificate using Form 14.
- (3) The minor changes specified by Cabinet Office Order, as referred to in the proviso to Article 17, paragraph (1) of the Act, are changes that would not result in a substantial change in the matters set forth in Article 16, paragraph (2), items (ii) or (iv) of the Act.
- (4) When a person who obtained a compliance certification under Article 16, paragraph (1) of the Act intends to make a notification under Article 17, paragraph (2) of the Act, the person must submit to the Prime Minister a written notification using Form 16, attaching a document pertaining to the changed matters and a copy of the launch site certificate referred to in Article 16, paragraph (4) of the Act.

If any change occurs to the information stated in the application documents, it is necessary to submit an application for authorization or a notification of change as follows, depending on the items to be changed and the nature of change. For information on the matters requiring an application for authorization or a notification as well as specific examples thereof, see Chapter 7 of Guidelines on

Compliance Certification for Launching Sites.

5.2.1. Application for authorization of change

An operator that intends to make any change to any of the following matters is required to submit an application for authorization related to change, unless the change would not result in any substantial change.

- the place, design and facility of the launch site
- the flight termination measures or other means of ensuring the safety of the vicinity of the trajectory and launch site of the launch vehicle

An applicant for authorization related to change is required to submit the following documents (Article 17, paragraph (1) of the Regulation).

- 1) a written application for authorization to make change
- 2) documents related to the changed matters
- 3) a document certifying that the launch site after the change satisfies the type-specific site safety standard
- 4) a copy of the launch site certificate

- 1) a written application for authorization to make change
Submit a written application stating the matters pertaining to the change (Form 15).
- 2) documents related to the changed matters
Submit a document referred to in 5.1.2(iii) related to the change.
- 3) a document certifying that the launch site after the change satisfies the type-specific site safety standard
Submit a document referred to in 5.1.2(ii) after the change.
- 4) a copy of the launch site certificate
Submit a copy of the launch site certificate issued.

If the authorization is granted, a notice to that effect will be provided. In this case, the applicant will receive a new launch site certificate, so the applicant is requested to return the existing launch site certificate.

5.2.2. Notification of change

An operator that intends to make any change to any of the following matters is required to submit a notification of change.

- name of person who obtained the compliance certification
- the type of the launch vehicle
- the date of type certification for the launch vehicle
- the matters which require the application for authorization under 5.2.1, that do not involve substantial changes

A notifier of change is required to submit the following documents (Article 17, paragraph (4) of the Regulation).

- | |
|--|
| <ol style="list-style-type: none">1) a written notification of change2) documents related to the changed matters3) a copy of the launch site certificate |
|--|

- 1) a written notification of change

Submit a written notification stating the matters related to change (Form 16).

- 2) documents related to the changed matters

Submit the documents relating to the changed matters contained in the documents specified in 5.1.2.

- 3) a copy of the launch site certificate

Submit a copy of the launch site certificate issued.

In the case of a notification of change, a new launch site certificate will not be issued, and it is not necessary to return the launch site certificate already issued.

6. License related to control of spacecraft

[License related to control of spacecraft]

Article 20 of the Act (License)

- (1) A person who intends to implement the control of a spacecraft using a spacecraft control facility located in Japan must obtain a license from the Prime Minister for each of the spacecraft.
- (2) A person who intends to obtain the license under the preceding paragraph must submit a written application to the Prime Minister, pursuant to the provisions of Cabinet Office Order, specifying the following information, attaching the documents specified by Cabinet Office Order:

Article 20 of the Regulation (Application, etc. for License Related to Control of Spacecraft)

- (1) A person who intends to obtain the license under Article 20, paragraph (1) of the Act must submit a written application using Form 17 to the Prime Minister.
- (2) The following documents must be attached to the written application under the preceding paragraph.

The specific examples of cases requiring or not requiring license related to the control of a spacecraft are as follows. If an applicant is unable to precisely determine whether the application for license is required, consult with the National Space Policy Secretariat, Cabinet Office (hereinafter the "NSPS") in advance.

- Cases requiring license related to the control of a spacecraft
 - a case where the applicant intends to control a spacecraft launched by a launch vehicle in Japan or abroad by using a spacecraft control facility located in Japan.
 - a case where the applicant intends to control the spacecraft by generating a signal for identifying and controlling the position of a spacecraft, in whole or part, at an operational site in Japan (i.e. the place where the computer is located), and transmitting the signal from a ground station in a foreign country through a network, etc. without using any ground station located in Japan.
 - a case where the applicant intends to implement the initial operation of a spacecraft to be delivered to a foreign country using a spacecraft control facility located in Japan.
 - a case where the applicant intends to start the control of a spacecraft which was controlled by using only a spacecraft control facility located in a foreign country

before the termination of the control using the former facility, using a spacecraft control facility located in Japan.

- a case where the applicant intends to start the control of a spacecraft which was transported to a space station as a cargo of a space station cargo vehicle and then deployed by the space station, using a spacecraft control facility located in Japan.
 - a case where the applicant intends to control an object separated from a spacecraft, using a spacecraft control facility located in Japan, after the separation thereof.
- Cases not requiring license related to the control of a spacecraft
- a case where the spacecraft is to be launched using a launch vehicle in Japan but not to be controlled using a spacecraft control facility located in Japan.
 - a case where the applicant intends to control a spacecraft by generating a signal for identifying and controlling the position of spacecraft at an operational site outside Japan, and transmitting the signal from a ground station in Japan through a network, etc.
 - a case where the applicant intends to monitor the position, attitude and condition of the spacecraft using a spacecraft control facility but does not intend to control all of these (a case where the applicants does not intend to conduct any bus control at all).
 - a case where the applicant intends to operate the spacecraft in an integral manner by transporting it to a space station as a cargo of a space station cargo vehicle and then placing it inside or outside the space station.
 - a case where the applicant does not intend to control any objects separated from a spacecraft, after the separation thereof (a case where the applicant does not intend to monitor the position, attitude or condition of the spacecraft or where the applicant does not intend to control all of them).

If the license related to the control of a spacecraft is granted, a notice to that effect is provided, and a license certificate for control of a spacecraft is issued. Refrain from making the license certificate for control of a spacecraft available to the public by such way as posting it on a website, so as to prevent forgery, etc.

6.1. Written application for license

6.1.1. Information items to be entered in the application form and guides for

preparation

A person who intends to obtain a license related to the control of a spacecraft needs to submit a written application (Form 17) containing the following information.

If any document, etc. already submitted to another organization contains the following information, it can be used as an attachment by indicating the relevant portion.

- (i) the address, name and contact information
- (ii) the name of spacecraft
- (iii) the location of the spacecraft control facility
- (iv) the orbit of spacecraft
- (v) purposes and methods of use of spacecraft
- (vi) the configuration of spacecraft
- (vii) content of the termination measures specified in Article 22, item (iv) of the Act
- (viii) control plan
- (ix) name and address of the representative in case of death
- (x) name of officers or employees in charge of business of control of spacecraft, etc.
- (xi) whether the applicant falls under any of the grounds for disqualification under Article 21 of the Act

The following is the guideline on these information items.

(i) the address, name and contact information

- If the person who intends to obtain a license to control spacecraft is an individual:
 - Write the name and address as stated in the residence record.
 - If the applicant is a foreign national, write the address and name as stated in a document issued by the relevant foreign government or a document equivalent thereto.
- If the person who intends to obtain a license to control spacecraft is a corporation:
 - State the corporation name and address as stated in the certificate of registered information.
 - If the applicant is a foreign corporation, write the name and head office or principal office of the corporation as stated in a document issued by the foreign government or competent international organization or a document equivalent

thereto.

For contact information, state the address, name, corporation name, section in charge, person in charge, etc. to enable the receiving of mail.

(ii) the name of spacecraft

State the name of the spacecraft for the control.

No name which is offensive or which would constitute trademark infringement is to be used.

(iii) the location of the spacecraft control facility

State the address of the spacecraft control facility.

If the operational site and ground station are located in different places, state the place of the operational site in this item, and the place of the ground station in "(viii) Control plan." If the operational sites are located in two or more places, also state the addresses of these sites. In addition, if the applicant is not able to precisely determine the operational sites required to be stated depending on the manner of the control of a spacecraft, consult with the NSPS in advance.

(iv) the orbit of spacecraft

Describe the orbit of the spacecraft expected at the time of the application, together with the type (i.e. earth orbit and planetary transfer orbit, etc.) For example, in the case of an earth orbit, state information such as semi-major axis, orbital eccentricity, inclination, right ascension of the ascending node, argument of perigee and time of perigee passage. For the specific values of these items, an applicant is permitted to state the values allowing some realistic margin so as to eliminate the need of making repeated applications or notifications of change.

(v) purposes and methods of use of spacecraft

In relation to the purposes of uses of spacecraft, describe the relevant field and purpose, such as telecommunication, scientific observation and Earth observation, and the relevant method, such as commercial use, use for research and development

and academic study.

If the spacecraft covers two or more fields, describe information for all of the applicable items.

(vi) the configuration of spacecraft

State the dimension (at the time of operation), total mass, design life, power system, attitude control system, propulsion system, type of propellant, mass of propellant, major structural material and main onboard devices in Attachment 1-1 of Form 17. For the specific values of these items, including a value to be determined immediately before the time of launch such as the mass of propellant, an applicant is permitted to state the values allowing some realistic margin so as to eliminate the need for making repeated applications or notifications of change. In addition, include an overview and a spacecraft system diagram of the spacecraft in Attachment 1-2 of Form 17.

Describe other design measures for the configuration of spacecraft in Attachments 1-3 through 1-5 according to 6.2 of the Guidelines on License Related to Control of Spacecraft.

(vii) content of the termination measures specified in Article 22, item (iv) of the Act

Measures for termination of a spacecraft include a measure to lower the altitude of the spacecraft (including a measure to lower the orbit by natural decay) and burn it in the atmosphere, a measure to elevate the orbit so as to avoid the risk of interfering with the control of other spacecraft, and a measure to guide the spacecraft to be put into the orbit of or fall to a celestial body other than the Earth.

Indicate the measures specified in Article 22, item (iv) of the Act to be adopted, as well as the details thereof.

If the applicant intends to use two or more termination measures at the time of the application, describe all of them.

(viii) control plan

For the control of a spacecraft, an applicant needs to devise plans for measures required for avoiding a collision with another spacecraft and other measures for the

prevention of harmful contamination, etc. of outer space. In addition, an applicant needs to prove that it has sufficient ability for the execution of the control plan. If the applicant is an individual, the applicant also needs to prove that the representative in case of death also has the ability.

For this purpose, describe the following information in Attachment 2 to Form 17, in accordance with 6.3 of the Guidelines on License Related to Control of Spacecraft.

- Overview of spacecraft control facility
 - Describe the operational site for the control of spacecraft (i.e. the place where the computer is located) and ground station.
- Method of control of spacecraft
 - Describe the outline of the communication route for receiving and transmitting signals between the operational site and the spacecraft, including a ground station.
 - Describe the details of operation for each operational phase.
 - If the spacecraft is to constitute a constellation, and if the control of another spacecraft has already commenced, describe the information identifying the spacecraft, including its name. If a license has been obtained for the control of the spacecraft, describe the name and license number of the spacecraft.
- Prevention of interference with the control of other spacecraft upon separation or docking
 - If any components, etc. of the spacecraft is to be separated or docked, describe the procedures for control so as to avoid any adverse effect on the control of other spacecraft.
- Prevention of break-up upon the occurrence of anomalies
 - state the fact that a measure to prevent the break-up of the spacecraft or termination measures will be implemented in the case of detection of any anomalies in the position, attitude and condition of the spacecraft.
- Prevention of collision with other spacecraft, etc.
 - In the case of a spacecraft capable of transferring to another orbit, describe the method of obtaining information on the probability of a collision with other spacecraft, etc., and the condition for determining whether to take measures to avoid collision if the relevant information is obtained.
- Termination measures
 - Describe the details of measures to be taken as the termination measures of the spacecraft.

- Establishment of organizational structure for the implementation of the control of spacecraft
 - state the fact that appropriate organizational structures will be established, including organization and business relating to control, response to anomalies, establishment of security measures and personnel training.

(ix) name and address of the representative in case of death

This information is required when the person who intends to obtain a license related to the control of a spacecraft is an individual.

If the representative in case of death is an individual, state the name and address as indicated in the resident record, or if the representative in case of death is a corporation, state the corporate name and address as indicated in its certificate of registered information.

(x) name of officers or employees in charge of business of control of spacecraft, etc.

State the names and addresses of officers or employees as stated in their residence certificates.

If the applicant is a corporation, state the names and addresses of officers or employees as stated in their residence records.

Here, "employees" means employees of an applicant having authority and responsibilities for the applicant's business with respect to the control of spacecraft (Article 21 of the Regulation), for example, the chief of the section in charge of business of control.

(x) whether the applicant falls under any of the grounds for disqualification under Article 21 of the Act

A person who falls under any of the following grounds is not eligible to obtain a license related to the control of a spacecraft. Check the box to indicate whether the applicant falls under any of these grounds.

Article 21 of the Act (Grounds for Disqualification)

A person who falls under any of the following items may not obtain a license under

paragraph (1) of the preceding Article:

- (i) a person who has violated the provisions of this Act or orders based on this Act or the laws and regulations of a foreign country equivalent thereto, and has been sentenced to a fine or severer punishment (including a punishment under the laws and regulations of a foreign country equivalent thereto), and for whom three years have not elapsed since the date on which execution of the sentence was completed or since the date on which that person ceased to be subject to the execution of the sentence;
- (ii) a person whose license has been rescinded pursuant to Article 30, paragraph (1), and for whom three years have not elapsed since the date of that rescission;
- (iii) an adult ward or a person who is treated in the same manner under the laws and regulations of a foreign country;
- (iv) a corporation whose officers engaged in the business thereof or employees specified by Cabinet Office Order fall under any of the preceding three items;
- (v) an individual whose employees specified by Cabinet Office Order fall under any of items (i) through (iii); and
- (vi) an individual whose representative in case of death falls under any of the preceding items.

6.1.2. Attachments

A person who intends to obtain a license related to the control of a spacecraft is required to submit a written application referred to in 6.1.1, together with the following documents (Article 20, paragraph (2) of the Regulation).

- (i) documents pertaining to the applicant
- (ii) a document certifying that the configuration of the spacecraft satisfies the standard specified by Article 22 of the Regulation

The following is the guideline on these documents.

(i) documents pertaining to the applicant

○ if the applicant is an individual, the following documents:

1) a copy of the resident record or a document in lieu thereof

This is limited to a certificate containing the registered domicile (or, in the case of a foreign national, the person's nationality, etc. provided in Article 30-45 of the

Residential Basic Book Act (Act No. 81 of 1967)).

2) the following documents related to employees and representative in case of death:
a copy of the resident record or a document in lieu thereof

○ if the applicant is a corporation, the following documents:

1) its articles of incorporation and certificate of registered information, or a document equivalent thereto;

If the applicant is a foreign corporation, submit a document issued by the relevant foreign government or competent international organization or a document equivalent thereto that contains the name and head office or principal office of the corporation.

2) The following documents related to the officers and employees as provided in Article 21, item (v) of the Act

a copy of the resident record or a document in lieu thereof

<p>(ii) a document certifying that the configuration of the spacecraft satisfies the standard specified by Article 22 of the Regulation</p>
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Refer to 6.2 of the Guidelines on License Related to Control of Spacecraft and indicate a design drawing, system block drawing, analytical findings, test results, etc. evidencing the conformity of the configuration of the spacecraft with the standard related to the configuration of spacecraft (Article 22 of the Regulation). The following are examples. The applicant may use existing documents such as design drawings by making references to the relevant part.

- Mechanism for the prevention of unintended release of objects
 - Indicate that the results of the structural analysis or environmental test have shown that the components of the spacecraft will not easily come off or scatter. Generally, the most severe environmental conditions of a spacecraft are during the period between the lift-off of the launch vehicle and the separation of the spacecraft.
 - If the spacecraft has a separable or deployable system including an antenna, solar battery panel, etc. on the orbit, indicate that it has a mechanism to prevent the equipment, etc. from easily scattering during the sequence.
 - Indicate that the release of combustion products is minimized.
- Mechanism for separation or docking, if applicable

- If the components, etc. of the spacecraft is to be separated or deployed (including the case of separation of a slave spacecraft from a master spacecraft), indicate that it has a mechanism to prevent the equipment, etc. from easily scattering during the sequence. In addition, indicate that the equipment, etc. deployed can be placed on an appropriate orbit so as to avoid a severe adverse effect on the control of a manned spacecraft, etc. and other spacecraft.
- If the docking with other spacecraft, etc. or debris capturing are to be implemented, indicate that the spacecraft has a mechanism to prevent the generation of debris, etc. due to the collision in the course of docking or capturing activities.
- Mechanism to prevent break-up
 - Indicate that the spacecraft is equipped with a function for transmitting the position, attitude and condition of the spacecraft to the spacecraft control facility, either directly or via other radio equipment, so as to detect any anomalies that may lead to break-up.
 - Indicate that the spacecraft is equipped with a function of removing or making safe all remaining energy in the case of anomalies, so as to prevent the spacecraft from breaking up and generating debris.
- For spacecraft for reentry into the Earth, a mechanism for the ensuring of public safety
 - Indicate that a spacecraft or its components, etc. which are to fall to Earth within or after the period of control of the spacecraft has a mechanism to be completely combusted in the atmosphere, or, if they are not to be completely combusted, that they have a configuration so that the risk to the estimated point of landing or water landing will not exceed the standards stipulated in the international standards or standards provided by space agency of each state.
- In the case of retrieving substances derived from another celestial body by guiding them to fall to Earth, a mechanism for the prevention of the deterioration of the environment of the Earth
 - In the case of retrieving a spacecraft or its components and parts which were put into orbit around a celestial body other than the Earth or which fell to the celestial body, by guiding them to fall to Earth (including substances obtained from other celestial body or attached substances derived from the other celestial body), indicate that measures in compliance with the

Planetary Protection Policy stipulated by the Committee on Space Research (COSPAR) have been implemented.

- In the case of putting the spacecraft into the orbit around a celestial body other than the Earth or guiding the spacecraft to fall on the celestial body, a mechanism to prevent the harmful contamination of the celestial body
 - In the case of a spacecraft or its components, etc. which are put into orbit around a celestial body other than the Earth or which are to be guided to fall to the celestial body, indicate that measures in compliance with the Planetary Protection Policy stipulated by the Committee on Space Research (COSPAR) have been implemented.

6.2. Change related to permission

[License related to control of spacecraft]

Article 23 of the Act (Permission, etc. Related to Change)

- (1) When a person who obtained the license under Article 20, paragraph (1) (hereinafter referred to as a "spacecraft control operator") intends to change any matter set forth in items (iv) through (viii) of paragraph (2) of that Article, the person must obtain a license from the Prime Minister pursuant to the provisions of Cabinet Office Order; provided, however, that this does not apply to minor changes specified by Cabinet Office Order.
- (2) When there has been a change to any of the matters set forth in Article 20, paragraph (2), items (i) through (iii) or item (ix), or any minor changes specified by Cabinet Office Order as referred to in the proviso to the preceding paragraph, a spacecraft control operator must make a notification to the Prime Minister to that effect without delay.
- (3) The provisions of the preceding Article apply mutatis mutandis to the license under paragraph (1).

Article 25 of the Regulation (Application, etc. for Permission Related to Change)

- (1) When a spacecraft control operator intends to make any changes to the matters set forth in Article 20, paragraph (2), items (iv) through (viii) of the Act, the spacecraft control operator must obtain permission from the Prime Minister, by submitting a written application using Form 19 attaching a document relating to the changed items contained in the documents set forth in Article 20, paragraph (2), item (ii) and a copy of the license certificate under paragraph (4) of that Article pertaining to the control of the spacecraft.

- (2) When the Prime Minister grants the permission to make any changes under Article 23, paragraph (1) of the Act, the Prime Minister is to notify the spacecraft control operator to that effect, order the spacecraft control operator to return the license certificate under Article 20, paragraph (4) pertaining to the control of the spacecraft and reissue the license certificate using Form 18.
- (3) The minor changes specified by Cabinet Office Order, as referred to in the proviso to Article 23, paragraph (1) of the Act, are changes that would not result in a substantial change in the matters set forth in Article 20, paragraph (2), items (iv) through (viii) of the Act.
- (4) When a spacecraft control operator intends to make a notification under Article 23, paragraph (2) of the Act, the spacecraft control operator must submit to the Prime Minister a written notification using Form 20, attaching a document pertaining to the changed matters and a copy of the license certificate under Article 20, paragraph (4) pertaining to the control of the spacecraft.

If any change occurs to the information stated in the application documents, it is necessary to submit an application for permission or a notification of change as follows, depending on the items to be changed and the nature of change. For information on the matters requiring an application for permission or a notification as well as specific examples thereof, see Chapter 7 of Guidelines on License Related to Control of Spacecraft.

6.2.1. Application for permission related to change

An operator that intends to make any change to any of the following matters is required to submit an application for permission to make change, unless the change would not result in any substantial change.

- purpose and method of use of the spacecraft
- the configuration of the spacecraft
- the details of termination measures
- the control plan
- name and address of the representative in case of death

An applicant for permission to make change is required to submit the following documents (Article 25, paragraph (1) of the Regulation).

- 1) a written application for permission to make change
- 2) documents related to the changed matters

3) a copy of the permission certificate

1) a written application for permission to make change

Submit a written application stating the matters pertaining to the change (Form 19).

2) documents related to the changed matters

Submit the documents relating to the changed matters contained in the documents specified in 6.1.2.

3) a copy of the license certificate

Submit a copy of the license certificate of the control of spacecraft issued.

If the permission to make change is granted, a notice to that effect will be provided. In this case, the applicant will receive a new license certificate, so the applicant is requested to return the existing license certificate.

6.2.2. Notification of change

An operator that intends to make any change to any of the following matters is required to submit a notification of change.

- Name and address of the spacecraft control operator
- Place of the spacecraft control facility:
- Orbit of the spacecraft
- Name of officers or employees in charge of business of control of spacecraft, etc.
- Whether the applicant falls under any of the disqualification grounds under Article 21 of the Act
- The matters which require the application for permission under 6.2.1, that do not involve substantial changes

A notifier of change is required to submit the following documents (Article 25, paragraph (4) of the Regulation).

1) a written notification of change

2) documents related to the changed matters

3) a copy of the permission certificate

1) a written notification of change

Submit a written notification stating the matters related to change (Form 20).

2) documents related to the changed matters

Submit the documents relating to the changed matters contained in the documents specified in 6.1.2.

3) a copy of the license certificate

Submit a copy of the license certificate of the control of spacecraft issued.

In the case of a notification of change, a new license certificate will not be issued, and it is not necessary to return the license certificate already issued.

6.3. Notification in case of accidents

[License related to control of spacecraft]

Article 25 of the Act (Measures in Case of Accident)

If a spacecraft control operator becomes unable to implement the control of the spacecraft without taking any termination measures pertaining to the license under Article 20, paragraph (1) due to the collision of a spacecraft pertaining to the license under that paragraph with another object or any other accidents, and if there is no prospect of recovery, the spacecraft control operator must promptly make a notification to the Prime Minister to that effect, the circumstances of the accident and the matters specified by Cabinet Office Order which assist with the identification of the position of the spacecraft after the occurrence of the accident, pursuant to the provisions of Cabinet Office Order. In this case, the license under that paragraph ceases to be effective.

Article 26 of the Regulation (Notification in Case of Accident)

- (1) When a spacecraft control operator intends to make a notification under Article 25 of the Act, the spacecraft control operator must submit a written notification using Form 21 to the Prime Minister.
- (2) The matters specified by Cabinet Office Order, as referred to in Article 25 of the Act, are as follows:
 - (i) the date, time and location of the accident; and
 - (ii) the orbit of the spacecraft after the occurrence of the accident.

If a spacecraft control operator is unable to implement the control of the spacecraft without taking any termination measures due to the collision of the spacecraft and another object or any other accidents, and if there is no prospect of recovery, the spacecraft control operator must submit a notification of accident (Form 21).

State the following information in the notification.

- situation of the accident
- date and place of occurrence of the accident
- the orbit of the spacecraft after the occurrence of the accident

Submit this notification even in the case where the operator is not able to commence the control of spacecraft due to a failure of launch and other reasons.

6.4. Succession

[License related to control of spacecraft]

Article 26 of the Act (Succession)

- (1) When a spacecraft control operator intends to transfer its business with respect to the control of spacecraft licensed under Article 20, paragraph (1) to a person who intends to implement the control of spacecraft using a spacecraft control facility located in Japan, if the transferrer and transferee have obtained authorization for that transfer and acquisition from the Prime Minister in advance pursuant to the provisions of Cabinet Office Order, the transferee succeeds to the status of the spacecraft control operator under the provisions of this Act.
- (2) When a spacecraft control operator intends to transfer the business with respect to the control of spacecraft licensed under Article 20, paragraph (1) to a person who intends to implement the control of spacecraft without using a spacecraft control facility located in Japan, the spacecraft control operator must make a notification to the Prime Minister in advance to that effect pursuant to the provisions of Cabinet Office Order.
- (3) When a corporation that is a spacecraft control operator is to be extinguished by merger and that merger has been authorized in advance by the Prime Minister pursuant to the provisions of Cabinet Office Order, a corporation surviving the merger or a corporation established as a result of the merger succeeds to the status of the spacecraft control operator under this Act.
- (4) When a corporation that is a spacecraft control operator has the business with respect to the control of spacecraft licensed under Article 20, paragraph (1) succeeded to by corporate split, and that corporate split has been authorized in advance by the Prime Minister pursuant to the provisions of Cabinet Office Order, a corporation which succeeded to the business as a result of the corporate split succeeds to the status of the spacecraft control operator under the provisions of this Act.
- (5) Articles 21 and 22 (limited to the part concerning item (iii)) (limited to the part

concerning ability to implement the control plan)) apply mutatis mutandis to the authorization under paragraph (1) and the preceding two paragraphs.

- (6) When a spacecraft control operator transfers its business with respect to the control of spacecraft licensed under Article 20, paragraph (1), or when a corporation that is a spacecraft control operator is extinguished by a merger or has the business succeeded to through a corporate split, if a disposition to refuse the authorization under paragraphs (1), (3) or (4) is rendered (if an application for the authorization is not submitted, when the transfer of business, merger or corporate split takes place), the license under Article 20, paragraph (1) ceases to be effective, and its transferee (except for the transferee with respect to business transfer provided in paragraph (2)), a corporation surviving the merger or a corporation established as a result of the merger, or a corporation which succeeded to that business by the corporate split, must take termination measures for which the license under paragraph (1) of that Article was granted, within 120 days from the day of the disposition (if an application for the authorization is not submitted, the day of the transfer of business, merger or corporate split). In this case, until the termination measures are completed (in the case provided in the preceding Article, until the notification under that Article is submitted), the provisions of Article 24, the first sentence of the preceding Article, Article 31, Article 32 and Article 33, paragraph (3) (including penal provisions relating to these provisions) apply by deeming these persons as spacecraft control operators.

Article 27 of the Regulation (Application, etc. for Authorization on Succession of Status of Spacecraft Control Operator)

- (1) A person who intends to obtain authorization under Article 26, paragraph (1) of the Act must submit to the Prime Minister a written application using Form 22, attaching the following documents and a copy of the license certificate under Article 20, paragraph (4) pertaining to the transferrer.
- (2) When a spacecraft control operator intends to make a notification under Article 26, paragraph (2) of the Act, the spacecraft control operator must submit to the Prime Minister a written notification using Form 23, attaching a document set forth in the items of the preceding paragraph and a copy of the license certificate under Article 20, paragraph (4) pertaining to the transferrer.
- (3) A person who intends to obtain authorization under Article 26, paragraph (3) of the Act must submit to the Prime Minister a written application using Form 24, attaching the following documents and a copy of the license certificate under

Article 20, paragraph (4) for the corporation whose business was succeeded to.
(4) A person who intends to obtain authorization under Article 26, paragraph (4) of the Act must submit to the Prime Minister a written application using Form 25, attaching the following documents and a copy of the license certificate under Article 20, paragraph (4) for the corporation whose business was succeeded to:

If the succession is authorized and any change occurs to the control plan (excluding the organizational structure for the execution of the control plan), an operator is required to submit an application for permission or a notification of change.

6.4.1. Business transfer

A spacecraft control operator that intends to transfer its business with respect to the control of spacecraft is required to submit the following documents (Article 27, paragraph (1) of the Regulation).

- 1) a written application for authorization (Form 22)
- 2) a document set forth in Article 20, paragraph (2), item (i) of the Regulation in relation to the transferee (a document related to the applicant)
- 3) a document evidencing that the transferee has a sufficient ability to execute the control plan (a document related to the organizational structure for executing the control plan)
- 4) a copy of the contract for the transfer and acquisition
- 5) if the transferrer or the transferee is a corporation, the minutes of resolution of a general meeting of shareholders or general meeting of members or a written consent of members with unlimited liability or all members on the transfer or acquisition, or a document evidencing the decision on the transfer or acquisition.
- 6) a copy of the permission certificate

6.4.2. Notification of transfer of business to person who intends to implement the control of spacecraft without using a spacecraft control facility located in Japan

A spacecraft control operator that intends to transfer its business with respect to the control of spacecraft to a person who intends to implement the control of spacecraft without using a spacecraft control facility located in Japan is required to submit the following documents (Article 27, paragraph (2) of the Regulation).

- 1) a written notification (Form 23)

- 2) a document set forth in Article 20, paragraph (2), item (i) of the Regulation in relation to the transferee (a document related to the applicant)
- 3) a document evidencing that the transferee has a sufficient ability to execute the control plan (a document related to the organizational structure for executing the control plan)
- 4) a copy of the contract for the transfer and acquisition
- 5) if the transferrer or the transferee is a corporation, the minutes of resolution of a general meeting of shareholders or general meeting of members or a written consent of members with unlimited liability or all members on the transfer or acquisition, or a document evidencing the decision on the transfer or acquisition.
- 6) a copy of the permission certificate

6.4.3. Merger

If a corporation that is a spacecraft control operator is to be extinguished by a merger, and if it intends to have a corporation surviving the merger or a corporation to be incorporated in the merger succeed to the business with respect to the control of spacecraft, the operator is required to submit the following documents (Article 27, paragraph (3) of the Regulation).

- 1) a written application for authorization (Form 26)
- 2) a document stating the method and conditions of the merger
- 3) a document set forth in Article 20, paragraph (2), item (i)(b) pertaining to the corporation surviving the merger or corporation to be incorporated in the merger (a document related to the applicant)
- 4) a document evidencing that the corporation surviving the merger or corporation to be incorporated in the merger has a sufficient ability to execute the control plan (a document related to the organizational structure for executing the control plan)
- 5) a copy of the merger contract and a statement explaining the merger ratio
- 6) the minutes of resolution of a general meeting of shareholders or general meeting of members or a written consent of members with unlimited liability or all members on the merger, or a document certifying the decision on the merger
- 7) a copy of the permission certificate

6.4.4. Corporate split

If a corporation that is a spacecraft control operator intends to have its business with respect to the control of spacecraft succeeded to by a corporate split, it is required to

submit the following documents (Article 27, paragraph (4) of the Regulation).

- 1) a written application for authorization (Form 25)
- 2) a document stating the method and conditions of the corporate split
- 3) a document set forth in Article 20, paragraph (2), item (i)(b) pertaining to the corporation succeeding to the business with respect to the control of spacecraft by the corporate split (a document related to the applicant)
- 4) a document evidencing that the corporation succeeding to the business with respect to the launching of spacecraft, etc. by the corporate split has a sufficient ability to execute the launch plan (a document related to the organizational structure for executing the control plan)
- 5) a copy of a corporate split contract (for the incorporation-type corporate split, a corporate split plan) and a statement explaining a split ratio
- 6) the minutes of resolution of a general meeting of shareholders or general meeting of members or a written consent of members with unlimited liability or all members on the corporate split, or a document evidencing the decision on the corporate split
- 7) a copy of the permission certificate

6.5. Notification of death

[License related to control of spacecraft]

Article 27 of the Act (Notification and Other Procedures Related to Death)

- (1) When a spacecraft control operator has deceased, the heir must make a notification to the Prime Minister to that effect without delay.
- (2) When a spacecraft control operator has deceased, the license under Article 20, paragraph (1) ceases to be effective, and the representative in case of death must take termination measures pertaining to the license under Article 20, paragraph (1), within 120 days from the date of death, unless the transfer of business with respect to the control of the spacecraft has been authorized under paragraph (1) of the preceding Article. In this case, until the implementation of the business transfer or the completion of the termination measures (in the case provided in Article 25, until the notification provided therein is submitted), provisions of Article 24, the first sentence of Article 25, Article 26, paragraphs (1) and (5), Article 31, Article 32 and Article 33, paragraph (3) (including penal provisions relating to these provisions) apply by deeming the representative in case of death as a spacecraft control operator.

Article 28 of the Regulation (Notification of Death)

When an heir makes a notification under Article 27, paragraph (1) of the Act, the heir must submit a written notification using Form 26 to the Prime Minister.

When an individual who is a spacecraft control operator has deceased, the heir is required to submit a notification (Form 26).

A representative in case of death is required to transfer the business with respect to the control of the spacecraft or take termination measures, within 120 days from the date of death of the spacecraft control operator.

6.6. Termination measures

[License related to control of spacecraft]

Article 28 of the Act (Termination Measures)

- (1) When a spacecraft control operator intends to terminate the control of a spacecraft pursuant to the control plan pertaining to the license under Article 20, paragraph (1), the spacecraft control operator must make a notification to the Prime Minister to that effect in advance and take the termination measures pertaining to the license under that paragraph, pursuant to the provisions of Cabinet Office Order.
- (2) When the termination measures are taken pursuant to the preceding paragraph, the license under Article 20, paragraph (1) ceases to be effective.

Article 29 of the Regulation (Notification of Termination Measures)

When a spacecraft control operator makes a notification under Article 28, paragraph (1) of the Act, the spacecraft control operator must submit a written notification using Form 27 to the Prime Minister.

When a spacecraft control operator intends to terminate the control of a spacecraft pursuant to its control plan, the operator is required to submit a written notification (Form 27) in advance.

The license related to the control of a spacecraft ceases to be effective upon the implementation of the termination measures specified in the written notification.

6.7. Notification of dissolution

[License related to control of spacecraft]

Article 29 of the Act (Notification and Other Procedures Related to Dissolution)

- (1) When a corporation that is a spacecraft control operator dissolves for reasons other

than a merger, a liquidator or a bankruptcy trustee must make a notification to the Prime Minister to that effect without delay.

- (2) When a corporation that is a spacecraft control operator dissolves for reasons other than a merger, the license under Article 20, paragraph (1) ceases to be effective, and the corporation under liquidation (meaning a corporation under liquidation or special liquidation, or a corporation against which bankruptcy proceedings have been commenced; hereinafter the same applies in this paragraph) must take termination measures pertaining to the license under Article 20, paragraph (1) within 120 days from the date of dissolution, unless the transfer of business with respect to the control of spacecraft has been authorized under Article 26, paragraph (1). In this case, until the implementation of the business transfer or the completion of the termination measures (in the case provided in Article 25, until the notification provided therein is submitted), provisions of Article 24, the first sentence of Article 25, Article 26, paragraphs (1) and (5), Article 31, Article 32 and Article 33, paragraph (3) (including penal provision relating to these provisions) apply by deeming the corporation under liquidation as a spacecraft control operator.

Article 30 of the Regulation (Notification of Dissolution)

When a liquidator or bankruptcy trustee makes a notification under Article 29, paragraph (1) of the Act, the liquidator or bankruptcy trustee must submit a written notification using Form 28 to the Prime Minister.

When a corporation that is a spacecraft control operator is to be dissolved due to grounds other than a merger, its liquidator or bankruptcy trustee is required to submit a written notification (Form 28).

A corporation under liquidation (meaning a corporation under liquidation or special liquidation, or a corporation against which bankruptcy proceedings have been commenced) is required to transfer the business with respect to the control of the spacecraft or take termination measures, within 120 days from the date of dissolution.

7. Scope of applicants

7.1. Application for permission related to launching of spacecraft, etc.

A person who intends to implement the launching of a spacecraft, etc. using a launch site located in Japan is required to submit an application.

7.2. Application for license related to control of spacecraft

The control of a spacecraft often involves two or more parties, including when the manufacturer (manufacturing business) and operator (operating business) of the spacecraft are different.

The following shows the criteria to be applied to the major cases involving two or more parties.

- A case where the operator of a spacecraft bus and the operator of missions are different

In this case, the operator of a spacecraft bus is generally required to submit an application, as the person engaged in the detection and control of position, etc. of a spacecraft using a spacecraft control facility is generally the operator of the spacecraft bus.

- A case where the manufacturer of a spacecraft conducts an initial operation thereof on an orbit and delivers the spacecraft to the operator on the orbit

<Case where the initial operation is to be conducted by the manufacturer of spacecraft>

- (i) A case where the spacecraft manufacturer proactively engages in regular maintenance works or emergency responses even after the delivery of the spacecraft

In this case, as both businesses can be considered to be engaged in the control of the same spacecraft, it is recommended that these two businesses jointly submit an application for license related to the control of spacecraft. In this case, describe the involvement of these two businesses in the control plan.

- (ii) A case where the spacecraft manufacturer is not involved in the control of a spacecraft after the delivery, or even in a case where the spacecraft manufacturer is involved, it is to only conduct ancillary works under the instruction of the operator of the spacecraft

In this case, it is recommended that the spacecraft manufacturer submit an application for license related to the control of a spacecraft, and take procedures

to transfer the business to the operator of the spacecraft (see 6.4) before the spacecraft is delivered on the orbit.

<Case where the initial operation is to be conducted by the operator of spacecraft>
During the initial operation, if the operator conducts the control of a spacecraft by giving instructions to the manufacturer from time to time, and the manufacturer is not involved in the control of the spacecraft after the initial operation at its discretion, including regular maintenance works or emergency responses, it is recommended that only the operator submit an application for the license.

8. Example of preparation of application forms

Attachment 1 shows an example of a form for the application of permission related to the launching of a spacecraft, etc., and Attachment 2 an example of a form for the application of license related to the control of a spacecraft.

9. List of main agencies and sections in charge

9.1. List of main agencies and sections relating to launching of a spacecraft, etc.

Table 1 shows the list of main agencies and sections related to the laws and regulations applicable to the launching of a spacecraft, etc.

Table 1 List of main agencies and sections relating to the launching of a spacecraft, etc.

Acts and provisions	Contact	Example of case where procedures, statutory qualifications, etc. are required
Article 4 of the Radio Act	Ministry of Internal Affairs and Communications, Telecommunications Bureau, Radio Department	
	- Fixed and Satellite Radio Communications Division, Fixed Radio Communications Office TEL: 03-5253-5886	- Case requiring an application for and acquisition of a license for a radio station related to a ground meteorological radar
	- Land Mobile Communications Division TEL: 03-5253-5895	- Cases requiring an application for and acquisition of a license for a radio station related to a launch vehicle
Fire Service Act	Fire and Disaster Management Agency, Dangerous Goods Safety Office TEL: 03-5253-7524 (Application) Municipal firefighting headquarters having jurisdiction over the location of the manufacturing site, etc.	- Case of manufacturing or storage of dangerous goods - Case requiring facilities, etc. for fire prevention
Poisonous and Deleterious Substances Control Act	Ministry of Health, Labour and Welfare, Pharmaceutical Safety and Environmental Health Bureau, Pharmaceutical Evaluation Division, Chemical Safety Office TEL: 03-3595-2298	In cases where a propellant includes deleterious chemical substances such as hydrazine
Industrial Safety and Health Act	(Outline of system) Ministry of Health, Labour and Welfare, Labour Standards Bureau, Industrial Safety and Health Department, Safety Division TEL: 03-3595-3225 (Notification, etc.) Labor standards office having jurisdiction over the location of the workplace	- In cases where a notification of installing a crane, etc. or a completion inspection is necessary. - In cases where business involving the operation of machine equipment, etc. requiring qualifications is to be conducted, such as a crane operator's license and the completion of a skill training course for forklift operation.
Explosives Control Act	(Outline of system) Ministry of Trade, Industry and Economy, Industrial and Product Safety Policy Group, Assistant to Director, Mine Safety and Explosive Control Division TEL: 03-3501-1870 (Application) Prefectures, etc. having jurisdiction over the location of workplaces, etc.	In cases of manufacturing, sale, storage, consumption or other handling of explosives
High Pressure Gas Safety Act	(Outline of system) Ministry of Trade, Industry and Economy, Industrial and Product Safety Policy Group, High Pressure Gas Safety Office TEL: 03-3501-1706 (Application) Prefectures, etc. having jurisdiction over the location of workplaces, etc.	In cases of manufacturing, storage, sale, transportation or other handling or consumption of high pressure gases, and cases of manufacturing and handling containers for high pressure gases
Article 99-2 of the Civil Aeronautics Act	Ministry of Land, Infrastructure, Transport and Tourism, Civil Aviation Bureau, Aviation Safety and Security Department, Flight Standards Division TEL: 03-5253-8737	Case of launching a launch vehicle
Procedures related to notices to mariners, etc.	Japan Coast Guard, Hydrographic and Oceanographic Department, Chart and Navigational Information Division, Notices to Mariners Office TEL: 03-3595-3615	In cases where any object is to fall on the sea upon the launching of a spacecraft, etc. and reentry of the orbital stage

9.2. List of main agencies and sections relating to control of spacecraft

Table 2 shows the list of main agencies and sections related to the laws and regulations applicable to the control of a spacecraft.

Table 2 List of main agencies and sections relating to control of spacecraft

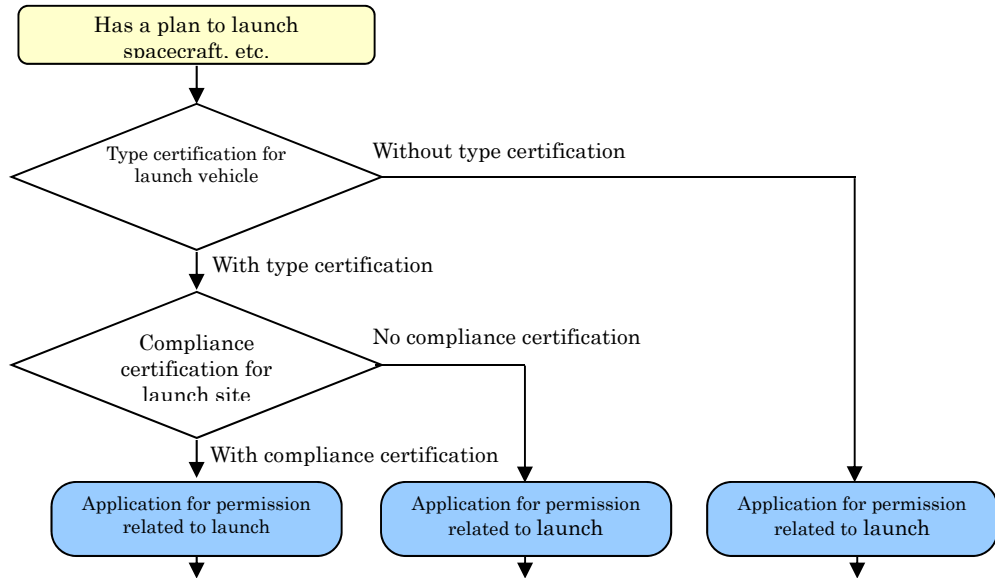
Acts and provisions	Contact	Example of case where procedures, statutory qualifications, etc. are required
Article 4 of the Radio Act	Ministry of Internal Affairs and Communications, Telecommunications Bureau, Radio Department	
	- Radio Policy Division, International Frequency Policy Office TEL: 03-5253-5878	- Cases requiring international frequency coordination for spacecraft
	- Fixed and Satellite Radio Communications Division TEL: 03-5253-5816	- Cases requiring application and acquisition of radio station licenses related to spacecraft and Earth stations
	- Fixed and Satellite Radio Communications Division, Fixed Radio Communications Office TEL: 03-5253-5886	- Case requiring an application for and acquisition of a license for a radio station related to a ground meteorological radar
	- Land Mobile Communications Division TEL: 03-5253-5895	- Cases requiring an application for and acquisition of radio station licenses for amateur stations to be established on spacecraft and amateur stations for remote control of the radio equipment
	- Regional Bureaus of Telecommunications and Okinawa Office of Telecommunications	- Cases requiring application and acquisition of radio station licenses related to small spacecraft and Earth stations
Fire Service Act	Fire and Disaster Management Agency, Dangerous Goods Safety Office TEL: 03-5253-7524 (Application) Municipal firefighting headquarters having jurisdiction over the location of manufacturing site, etc.	- Case of manufacturing or storage of dangerous goods - Case requiring facilities, etc. for fire prevention
Poisonous and Deleterious Substances Control Act	Ministry of Health, Labour and Welfare, Pharmaceutical Safety and Environmental Health Bureau, Pharmaceutical Evaluation Division, Chemical Safety Office TEL: 03-3595-2298	In cases where a propellant includes deleterious chemical substances such as hydrazine
Industrial Safety and Health Act	(Outline of system) Ministry of Health, Labour and Welfare, Labour Standards Bureau, Industrial Safety and Health Department, Safety Division TEL: 03-3595-3225 (Notification, etc.) Labor standards office having jurisdiction over the location of the workplace	- In cases where a notification of installing a crane, etc. or a completion inspection is necessary. - In cases where business involving the operation of machine equipment, etc. requiring qualifications is to be conducted, such as a crane operator's license and the completion of a skill training course for forklift operation.
Explosives Control Act	(Outline of system) Ministry of Trade, Industry and Economy, Industrial and Product Safety Policy Group, Assistant to Director, Mine Safety and Explosive Control Division TEL: 03-3501-1870 (Application) Prefectures, etc. having jurisdiction over the location of the workplace, etc.	In cases of manufacturing, sale, storage, consumption or other handling of explosives
High Pressure Gas Safety Act	(Outline of system) Ministry of Trade, Industry and Economy, Industrial and Product Safety Policy Group, High Pressure Gas Safety Office TEL: 03-3501-1706 (Application) Prefectures, etc. having jurisdiction over the location of the workplace, etc.	In cases of manufacturing, storage, sale, transportation or other handling or consumption of high pressure gases, and cases of manufacturing and handling containers for high pressure gases
Article 52 of the Foreign Exchange and Foreign Trade Act	Ministry of Trade, Industry and Economy, Security Export Licensing Division TEL: 03-3501-2801	Case of exporting a spacecraft
Procedures related to notices to mariners, etc.	Japan Coast Guard, Hydrographic and Oceanographic Department, Chart and Navigational Information Division, Notices to Mariners Office TEL: 03-3595-3615	In cases where any object is to fall on the sea upon the reentry of a spacecraft

10. Checklist of documents to be submitted

The following are checklists for the documents to be submitted for applications.

- Checklist for application of permission related to the launching of a spacecraft, etc.
- Checklist for application of type certification for a launch vehicle
- Checklist for application of compliance certification for a launch site
- Checklist for application of a license related to the control of spacecraft

■ Checklist for application for permission related to the launching of a spacecraft, etc.



Standard processing time	1-3 months	1-3 months	4-6 months
Documents required for the application for permission of launch (Checklist)	<input type="checkbox"/> Written application (Form 1) Attach the following documents: <input type="checkbox"/> Documents pertaining to the applicant	<input type="checkbox"/> Written application (Form 1) Attach the following documents: <input type="checkbox"/> Documents pertaining to the applicant <input type="checkbox"/> A document certifying that the launch site complies with the type-specific site safety standard <input type="checkbox"/> A document describing the flight termination measures or any other methods of ensuring the safety of the vicinity of the trajectory and launch site of the launch vehicle <input type="checkbox"/> A document describing the technical conditions for ensuring the compliance of the launch vehicle and launch site, and evidencing the compliance with the conditions	<input type="checkbox"/> Written application (Form 1) Attach the following documents: <input type="checkbox"/> Documents pertaining to the applicant <input type="checkbox"/> A document certifying that the design of the launch vehicle complies with the launch vehicle safety standard <input type="checkbox"/> A document describing the flight termination measures or any other methods of ensuring the safety of the vicinity of the trajectory and launch site of the launch vehicle (in relation to the launch vehicle) <input type="checkbox"/> A document describing the technical conditions for ensuring the compliance of the launch vehicle and launch site (in relation to the launch vehicle) <input type="checkbox"/> A document describing the flight records or test results of the launch vehicle <input type="checkbox"/> A document describing the results of assessment of reliability of the launch vehicle <input type="checkbox"/> A document describing the method of verification that the launch vehicle complies with its design <input type="checkbox"/> A document certifying that the launch site complies with the type-specific site safety standard <input type="checkbox"/> A document describing the flight termination measures or any other methods of ensuring the safety of the vicinity of the trajectory and launch site of the launch vehicle (in relation to the launch site) <input type="checkbox"/> A document describing the technical conditions for ensuring the compliance of the launch vehicle and launch site, and evidencing the compliance with the conditions (in relation to the launch site)

- Checklist for application of type certification for a launch vehicle
- Written application (Form 9)

Attach the following documents:

- Documents pertaining to the applicant
- A document certifying that the design of the launch vehicle complies with the launch vehicle safety standard
- A document describing the flight records or test results of the launch vehicle
- A document describing the results of assessment of reliability of the launch vehicle
- A document describing the method of verification that the launch vehicle complies with its design

- Checklist for application of compliance certification for launch site
- Written application (Form 13)

Attach the following documents:

- Documents pertaining to the applicant
- A document certifying that the launch site complies with the type-specific site safety standard
- A document describing the technical conditions for ensuring the compliance of the launch vehicle and launch site, and evidencing the compliance with the conditions

- Checklist for application of license related to the control of spacecraft
- Written application (Form 17)

Attach the following documents:

- Documents pertaining to the applicant
- A document certifying that the configuration of the spacecraft satisfies the launch vehicle safety standard provided in Article 22