Attachment 12-4: Quarantine Requirements for the Importation of Caprine Embryos from France

1. The quarantine requirements regulate the importation of embryos *in vivo* of the *Capra* genus of the Caprinae subfamily (hereinafter referred to as the "embryos"). The embryos *in vivo* mentioned in the preceding paragraph refer to embryos that are fertilized and developed in live animals.
2. Testing referred to in these requirements must be conducted by laboratories owned, designated or approved by the government of the exporting country using methods listed in these requirements; or prescribed, recommended or considered suitable by the OIE's Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (hereinafter OIE Manual) for confirmation of population or individual animals being free from infection with pathogens of corresponding diseases. For diseases with no such testing methods prescribed, recommended or considered suitable in the OIE Manual, methods that have been published in international scientific journals may also be used.
3. Embryos are allowed to be imported only from zones of France recognized by a central competent authority of the importing country as being free from foot and mouth disease (FMD) and peste des petits ruminants (PPR).
4. At the time of being uploaded on board for transportation, France is free from the contagious caprine pleuropneumonia (CCP), sheep pox, goat pox and vesicular stomatitis according to the disease information published by the OIE.
5. The measures for scrapie implemented by France shall comply with the following requirements:

5.1 France implements an epidemiological surveillance system specific to scrapie in accordance with the OIE recommendations. The use of meat-and-bone meal and greaves is prohibited for feeding ruminants.

5.2 Scrapie is a notifiable disease in France, and is subject to such measures as the culling and destruction by incineration of the animals in a herd in accordance with the OIE Terrestrial Animal Health Code (hereinafter the OIE Code) whenever a case of scrapie disease is confirmed.

6. For herd of origin of the embryos (hereinafter referred to as the "herd"), the following requirements shall be complied with:

6.1 The herd originates from zones or artificial insemination centers of being free from tuberculosis (*Mycobacterium bovis, M. caprae* and *M. tuberculosis*).

6.2 The compulsory identification system for goats in France allows to trace back the herd of origin.

7. For the donor female embryo-producing goats (hereinafter referred to as the "donor

does"), the following requirements shall be complied with:

7.1 Donor does are raised in France since birth or for at least 60 days prior to collection and spent at least 6 months prior to, and at the time of, collection in a herd of being free from tuberculosis (*Mycobacterium bovis, M. caprae* and *M. tuberculosis*).

7.2 The antibody tests or polymerase chain reaction (PCR) of Schmallenberg virus detection is conducted on the day of fertilization with negative results.

7.3 Donor does are found to be healthy with no clinical signs of external genital diseases or any diseases on the day of collection.

7.4 One of the two following requirements of enzootic abortion of ewes shall be complied with:

7.4.1 Donor does shall be raised in establishments of being free from enzootic abortion of ewes in accordance with the OIE Code for at least 2 years prior to collection and have to not get exposure to animals that do not comply with the requirements.

7.4.2 Donor does shall be raised since birth or for 2 years prior to collection in establishments where no enzootic abortion of ewes has been diagnosed, and the diagnostic tests shall be conducted within 2 to 3 weeks after collection with negative results.

7.5 One of the two following requirements of bluetongue shall be complied:

7.5.1 Donor does are raised in zones of being free from bluetongue for more than 60 days prior to collection.

7.5.2 The blood is sampled on the day of collection and tested by the reverse transcription polymerase chain reaction **(**RT-PCR) with negative results.

7.6 Donor does are not vaccinated against brucellosis (*Brucella abortus*、*B. melitensis* and *B. suis*) within 3 years prior to collection; and during which time, one of the two following requirements of brucellosis shall be complied with:

7.6.1 Donor does are raised in zones of being free from brucellosis.

7.6.2 Donor does are raised in a herd of being free from brucellosis and tested every 6 months with negative results.

7.7 Donor does originate from zones of being free from Rift valley fever (RVF), or no clinical signs of RVF are found within the period from 14 days prior to and 14 days after collection. And one of the following requirements of RVF shall be complied with:

7.7.1 The vaccines against RVF are administrated at least 14 days prior to collection.

7.7.2 The antibody tests are conducted on the day of collection with positive results.

7.7.3 Testing of paired samples demonstrates that seroconversion do not occur between embryo collection and 14 days after collection.

7.8 The following requirements of scrapie shall be complied with:

7.8.1 Donor does are born and raised in establishments free from scrapie disease; and no cases of scrapie have been confirmed for at least 2 years before collection.

7.8.2 Donor does have never presented any clinical evidence of scrapie disease.

7.8.3 Parents (males or females) of donor does did not die due to scrapie disease, and parents of donor have never presented any clinical evidence of scrapie disease.

8. For the donor male embryo-producing goats (hereinafter referred to as the “donor buck”), the following requirements shall be complied with:

8.1 Donor bucks are raised in France for at least 21 days prior to collection, and on the day of semen collection or natural mating, donor bucks are clinically healthy.

8.2 Donor bucks shall be approved as donors and raised in the semen collection centers supervised by the French Ministry of Agriculture. The semen for the production of embryos shall be complied with the OIE Code.

8.3 The following requirements of scrapie shall be complied with:

8.3.1 Donor bucks are born and raised in establishments of being free from scrapie disease; no cases of scrapie have been confirmed in establishments for at least 2 years before collection.

8.8.2 Donor bucks have never presented any clinical evidence of scrapie disease.

8.8.3 Parents (males or females) of donor bucks did not die due to scrapie disease, and parents of donor bucks have never presented any clinical evidence of scrapie disease.

8.4 No clinical signs of PPR are found on the day and within 21 days after collection.

9. The embryo transfer team shall comply with the following requirements:

9.1 The collection, processing and storage of embryos are conducted by transplantation teams of embryos approved by the French Ministry of Agriculture with methods recommended by the International Embryo Transfer Society (IETS) and the OIE Code.

9.2 The operations are carried out by a team under the responsibility of a veterinarian.

9.3 The team has rooms and equipment specific to embryo-preparation operations. These operations are inspected by the veterinary services of the French Ministry of Agriculture at least once per year.

9.4 The team is subject to quality control at least once per year by a laboratory approved by the French Ministry of Agriculture.

10. The procedures of managing embryos shall comply with the following requirements:

10.1 The embryos have undergone trypsin treatment in accordance with the IETS Manual.

10.2 Each consignment of embryos is packaged, frozen and packed in suitable and sterile containers. The straws and containers are identified to show the date of

collection, the identification of female and male donors, and the approval number of the embryo transfer team.

10.3 The consignment has to be stored in premises approved by the French Ministry of Agriculture at least 30 days prior to export.

11. Each consignment shall be accompanied by an original veterinary certificate issued by the veterinarians of the animal quarantine authority of France. The certificate shall state the following information in English or Chinese:

11.1 Origin of the animal:

11.1.1 Number of embryos, number of straws and their identifications;

11.1.2 Date of collection of embryos and semen;

11.1.3 Breed and identification numbers of donor animals;

11.1.4 The exporting country;

11.1.5 Name and address of the establishments where donor animals are raised;

11.1.6 Name and address of the embryo collection centers;

11.1.7 Name and address of the embryo transfer teams;

11.1.8 Name and address of the embryo storage facility; and

11.1.9 Name and address of the exporter.

11.2 Destination:

11.2.1 Country of destination; and

11.2.2 Name and address of the importer.

11.3 Result of quarantine:

11.3.1 Statement attesting that the embryos fulfill the requirements stipulated in Article 4 to 10.

11.3.2 Date of sampling, methods and dates of test and results. For the testing results stipulated in Article 7.6, the statement of test result is required only. The name of the journals, the publication date, and title of the associated articles when using methods published in international scientific journals.

11.4 Date of issuance, name and official stamp of the issuing authority, name and signature of the issuing officer.