

**Coordination agreement  
between France and Germany  
in the Frequency bands  
1710 - 1785 MHz and 1805 - 1880 MHz**

France and Germany agree on the following coordination procedure in the frequency bands 1710 - 1785 MHz and 1805 - 1880 MHz. The first part of this coordination agreement deals with the frequency coordination between DCS 1800 systems in France and Germany. The second part of this agreement deals with the frequency coordination between DCS 1800 in Germany and radio relay in France. The third part of this agreement deals with the frequency coordination between DCS 1800 in France and radio relay in Germany.

In case that unexpected difficulties in applying this agreement emerge, both administrations agree to meet again and discuss the agreement and if necessary revise this agreement.

**1. Frequency coordination between DCS 1800 systems in France and Germany:**

France and Germany agree that the frequency coordination between DCS 1800 systems on both sides of their border shall be based on the "Agreement between the telecommunications administrations of Austria, Belgium, France, Germany, Luxembourg, the Netherlands and Switzerland on the frequency coordination of systems using DCS 1800 standards in the frequency bands 1710 - 1785 MHz and 1805 - 1880 MHz".

However, as an exception from the allotment of preferential and non-preferential frequencies laid down in the above-mentioned multilateral agreement, the frequency channels 862 and 863 shall be preferential channels of France instead of Germany.

In accordance with the multilateral agreement, both Administration will inform each other of their intention to use DCS 1800.

## **2. Frequency coordination between DCS 1800 in Germany and radio relay in France:**

The frequency coordination procedure is based on the concept of protecting the fixed services in France from the interference of DCS 1800 systems in Germany. For this coordination procedure we distinguish the following two cases:

- 2.1 Tactical radio relay (in F) and DCS 1800 (in D)
- 2.2 Fixed radio relay (in F) and DCS 1800 (in D).

### **2.1 Tactical radio relay (in F) and DCS 1800 (in D)**

The coordination procedure is described by the flowchart in Annex 1.

Germany informs France as soon as possible of all DCS 1800 base stations within a distance of 50 km within the German territory. The technical characteristics of the DCS 1800 base stations to be provided by Germany shall be in accordance with Annex 2 of the Vienna Agreement 1993.

The calculations concerning tactical radio relay are performed by France with a calculation method and propagation model of its choice. If no interference occurs in practical operation, every method of calculation is acceptable for Germany. It is not necessary for France to provide Germany with the information concerning the operation of tactical radio relay.

### **2.2 Fixed radio relay (in F) and DCS 1800 (in D)**

Existing radio relay links shall be protected, irrespective of the preferential frequency arrangements for the coordination of DCS to DCS given in chapter 1.

The coordination procedure is described by the flowchart in Annex 2.

All French fixed radio relay links to be protected are given in Annex 3.

### **3. Frequency coordination between DCS 1800 in France and radio relay in Germany**

The frequency coordination procedure is based on the concept of protecting the fixed services in Germany from the interference of DCS 1800 systems in France. For this coordination procedure we distinguish the following two cases:

- 3.1 Tactical radio relay (in D) and DCS 1800 (in F)
- 3.2 Fixed radio relay (in D) and DCS 1800 (in F)

#### **3.1 Tactical radio relay (in D) and DCS 1800 (in F)**

The coordination procedure is described by the flowchart in Annex 4.

France informs Germany as soon as possible of all DCS 1800 base stations within a distance of 50 km within the French territory. The technical characteristics of the DCS 1800 base stations to be provided by France shall be in accordance with the Annex 2 of the Vienna Agreement 1993.

The calculations concerning tactical radio relay are performed by Germany with a calculation method and propagation model of its choice. If no interference occurs in practical operation, every method of calculation is acceptable for France. It is not necessary for Germany to provide France with the information concerning the operation of tactical radio relay.

#### **3.2 Fixed radio relay (in D) and DCS 1800 (in F)**

Existing radio relay links shall be protected, irrespective of the preferential frequency arrangements for the coordination of DCS to DCS given in chapter 1.

The coordination procedure is described by the flowchart in Annex 5.

All German fixed radio relay links to be protected are given in Annex 6.

#### 4. Date of entry into force

This agreement will enter into force the 14th of July 1994.

Annex 1 : Coordination procedure for tactical radio relay (in F) and DCS 1800 (in D)

Annex 2: Coordination procedure for existing fixed radio relay (in F) and DCS 1800 (in D)

Annex 3: List of French radio relay to be protected

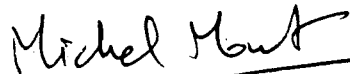
Annex 4: Coordination procedure for tactical radio relay (in D) and DCS 1800 (in F)

Annex 5: Coordination procedure for existing fixed radio relay (in D) and DCS 1800 (in F)

Annex 6: List of German radio relay to be protected

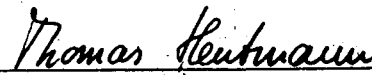
Done at Mainz, 6th of July 1994.

For the Administration of France

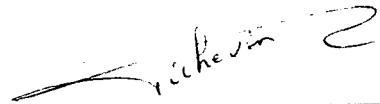


Michel Monnot

For the Administration of Germany

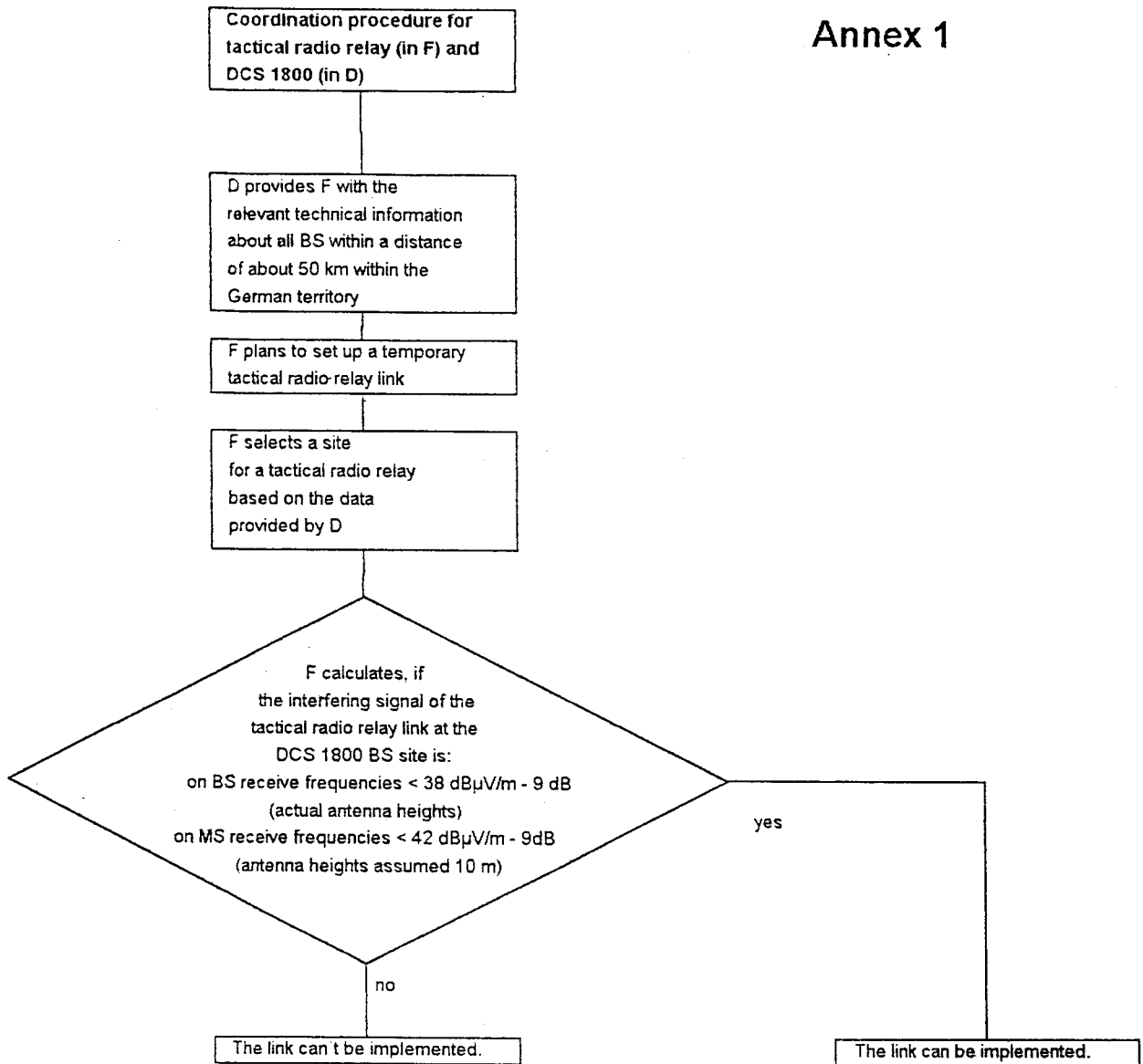


Thomas Heutmann



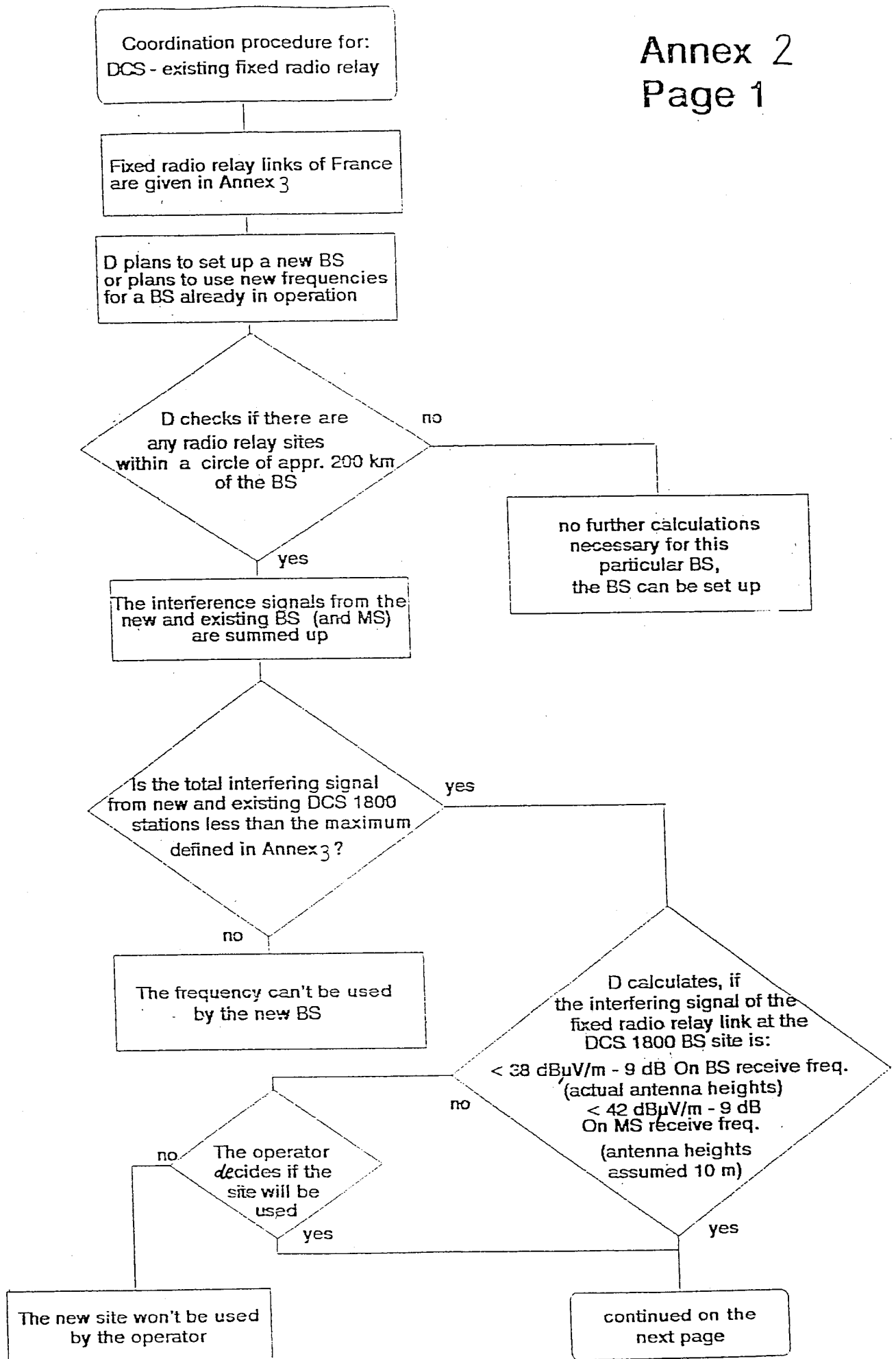
Amiral Pichevin

# Annex 1



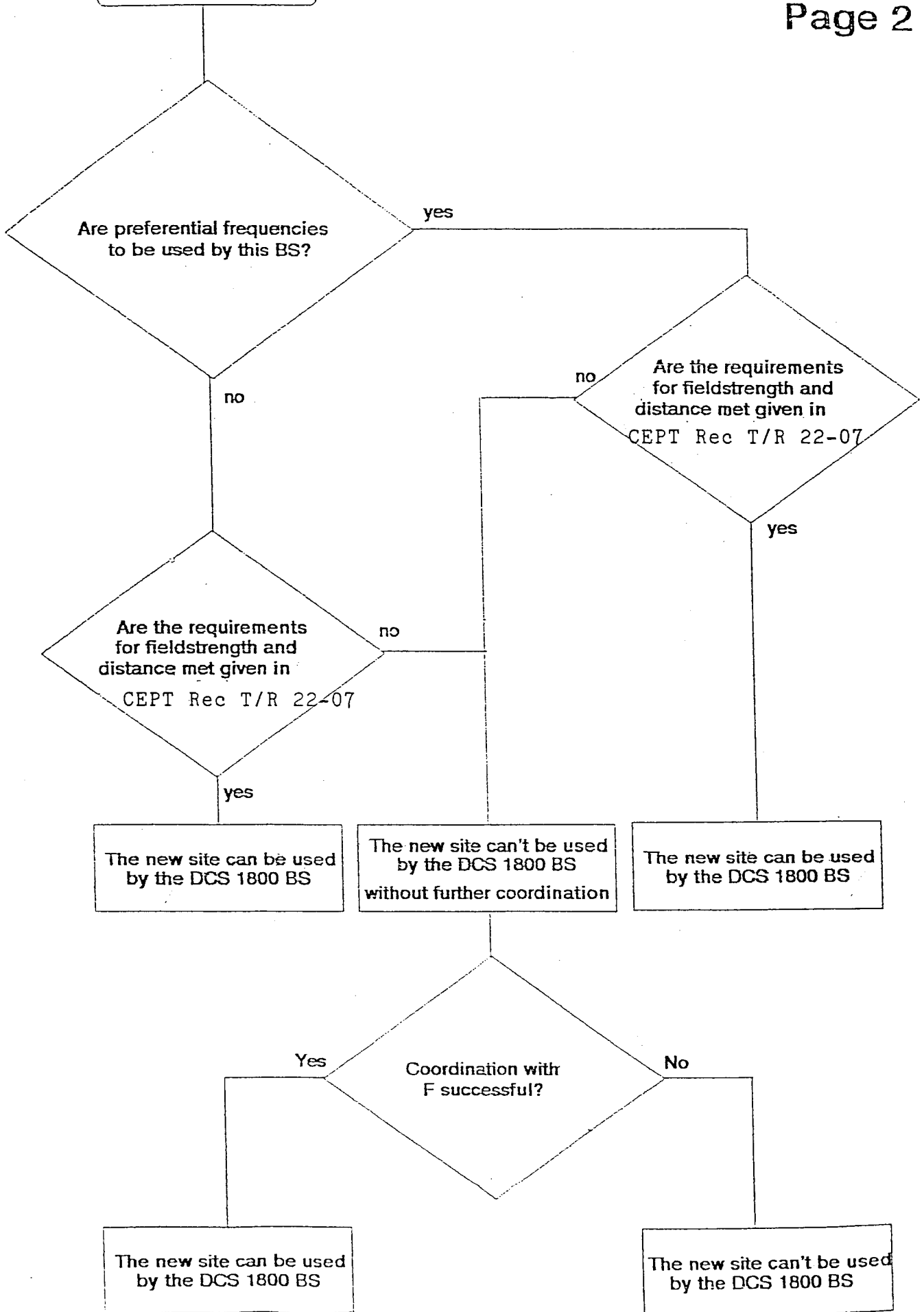
BS: base station

MS: mobile station



BS: base station  
MS: mobile station

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### Annex 3: List of French radio relay to be protected

#### 1. List of stations:

|   | station number | station name   |
|---|----------------|----------------|
| 1 | 2              | Metz Jussy     |
|   | 1              | Metz Delattre  |
| 2 | 3              | Saulny         |
|   | 4              | Laudrefang     |
| 3 | 5              | Rohrbach       |
|   | 4              | Laudrefang     |
| 4 | 6              | Dabo           |
|   | 7              | Amance         |
| 5 | 8              | Ars Laquenexy  |
|   | 1              | Metz Delattre  |
| 6 | 9              | Escherange     |
|   | 10             | Eix            |
| 7 | 7              | Amance         |
|   | 11             | Luneville Treu |
| 8 | 12             | Servance 1     |
|   | 13             | Beuvezin       |

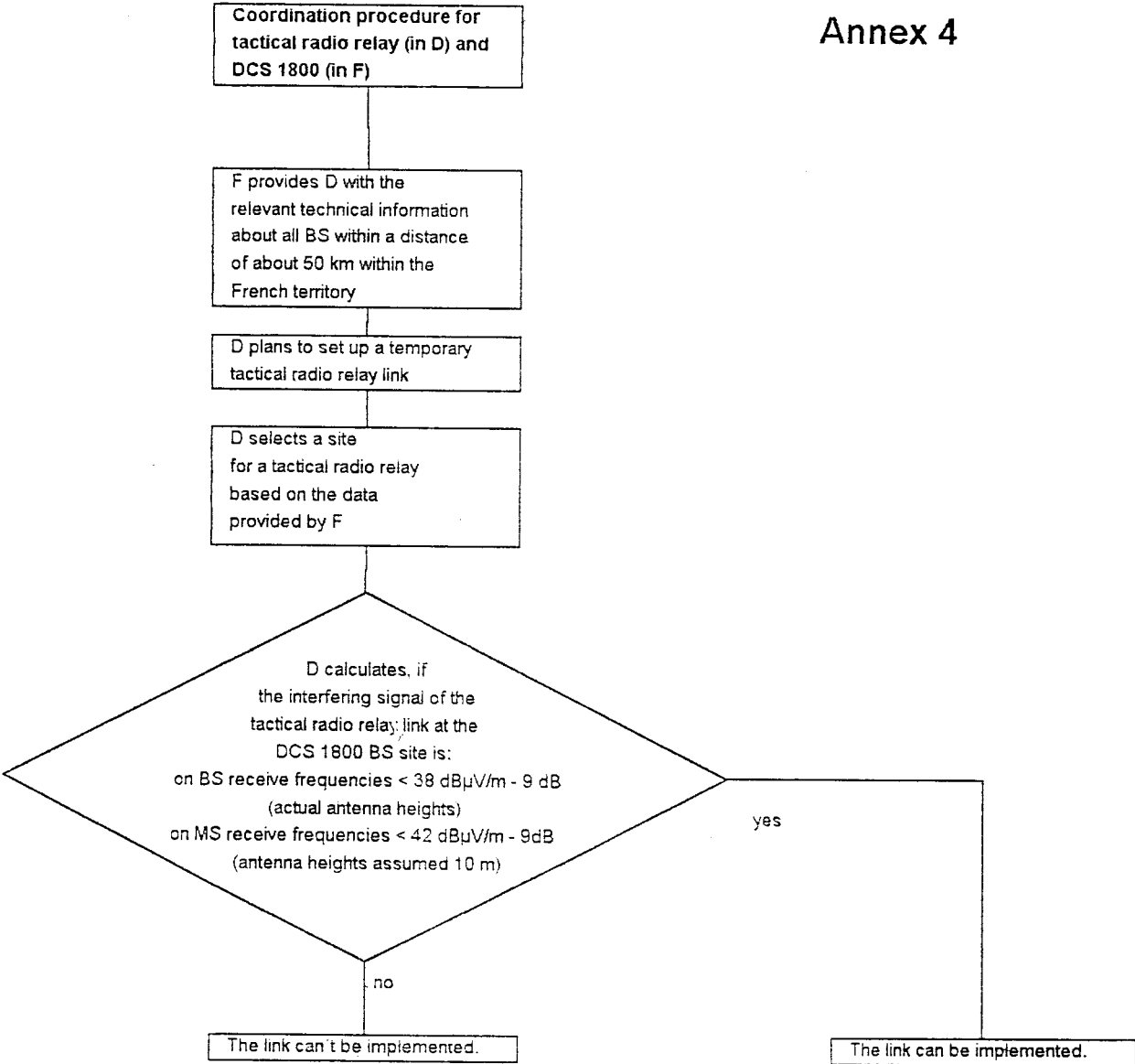
|    | station number | station name  |
|----|----------------|---------------|
| 9  | 7              | Amance        |
|    | 2              | Metz Jussy    |
| 10 | 14             | Metz Reymond  |
|    | 2              | Metz Jussy    |
| 11 | 3              | Saulny        |
|    | 31             | Metz Delattre |
| 13 | 12             | Servance 1    |
|    | 17             | Montfaucou    |
| 14 | 12             | Servance 1    |
|    | 18             | Bourogne      |
| 15 | 7              | Amance        |
|    | 13             | Beuvezin      |
| 16 | 3              | Saulny        |
|    | 10             | Eix           |
| 17 | 6              | Dabo          |
|    | 19             | Oberhoffen    |

|    | station number | station name    |
|----|----------------|-----------------|
| 18 | 20             | Champ du Feu    |
|    | 21             | Colmar PCE      |
| 19 | 22             | Epinal Reffye   |
|    | 13             | Beuvezin        |
| 21 | 24             | Stras. Entzheim |
|    | 25             | Drachenbron     |
| 22 | 26             | Metz Frescaty   |
|    | 2              | Metz Jussy      |
| 23 | 28             | Haraumont       |
|    | 27             | Thierville      |
| 24 | 17             | Montfaucou      |
|    | 29             | Besancon Ruty   |
| 25 | 17             | Montfaucou      |
|    | 30             | Monnieres       |
| 26 | 31             | Rarecourt       |
|    | 10             | Eix             |

2. The technical characteristics and protection criteria of these links are the subject of a separate document.



Annex 4



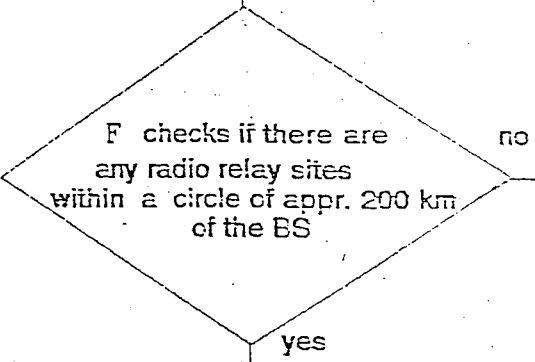
BS: base station

MS: mobile station

Coordination procedure for:  
DCS - existing fixed radio relay

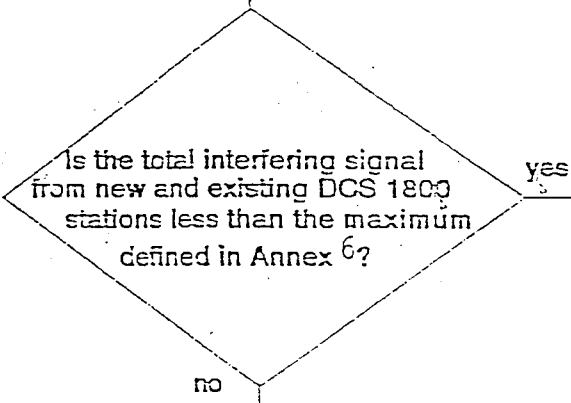
Fixed radio relay links of Germany  
are given in Annex 6

F plans to set up a new BS  
or plans to use new frequencies  
for a BS already in operation

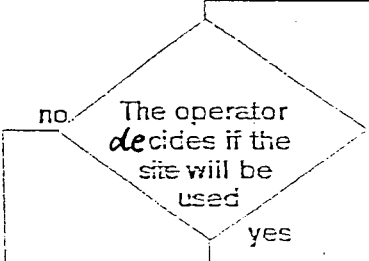
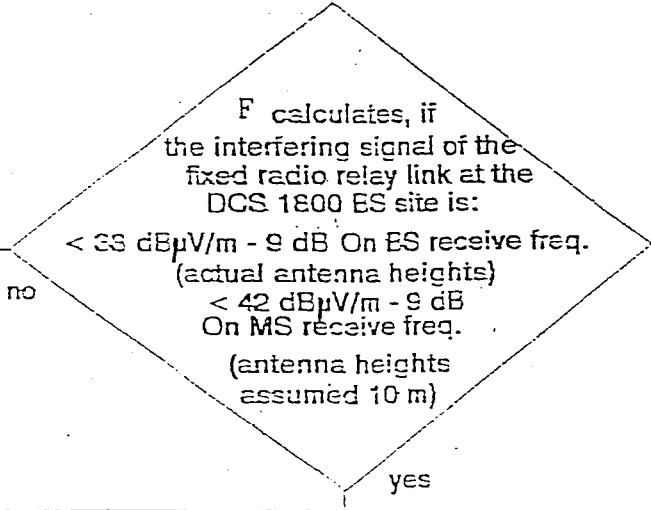


no further calculations  
necessary for this  
particular BS,  
the BS can be set up

The interference signals from the  
new and existing BS (and MS)  
are summed up



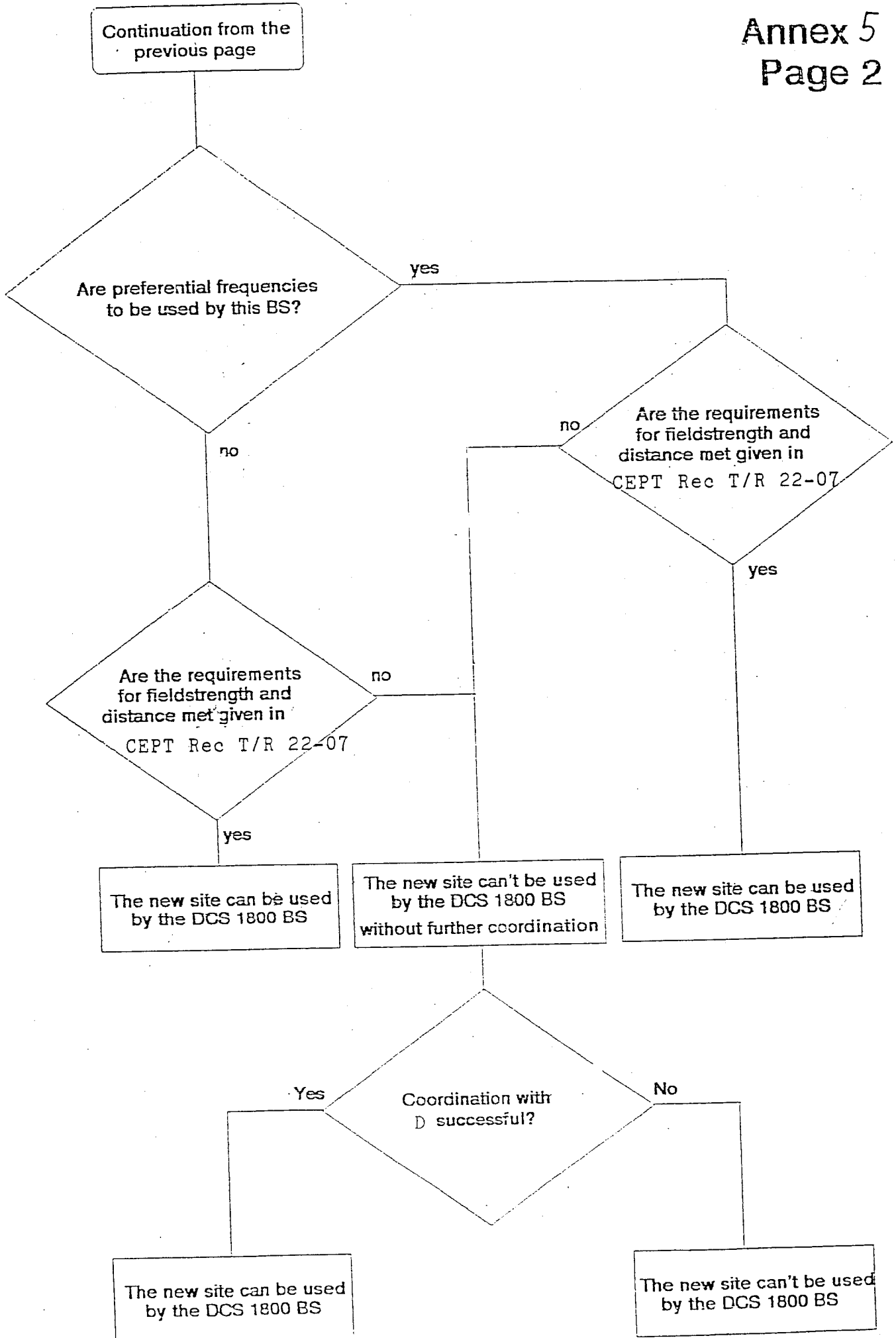
The frequency can't be used  
by the new ES



The new site won't be used  
by the operator

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next page

ES: base station  
MS: mobile station



## **Annex 6: List of German radio relay to be protected**

The German Administration will provide the list and technical characteristics of fixed radio relay links to the French Administration. The necessary protection criteria will be agreed on a case by case basis by both Administrations.