

# MID-GALLOWAY AREA FIRE PLAN

By

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and others

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## GLENTROOL FOREST PARK AND ASSOCIATED FORESTS

### 1. Description of the Area Covered by the Plan

The Forests included in this Plan consist mainly of extensive young coniferous plantations, planted largely since the war although some were planted as early as 1922. They lie within the area roughly bounded by the Cree valley in the west and by the Water of Ken in the east. Altitude varies from sea level to nearly 3,000 feet (Merrick 2,764 feet) but the highest planting barely reaches 1,500 feet. The total area of the units directly participating in the scheme is some 155,000 acres (242 square miles) of which some 85,000 acres will ultimately be planted. At present about two thirds of the area are planted. In addition a number of other units which are dependent on the scheme for outside assistance amount to another 4,500 acres of which 3,500 acres are planted to date.

Numerous glens and ridges break up the whole area, causing some variation in climatic conditions and making communications difficult. Rainfall over the area varies from under 40 inches to over 60 inches per annum. The mean January temperature is between 36–40°F. while the mean July temperature is between 58–60°F.

Between February and June these forests are particularly vulnerable owing to the persistence of dead molinia grass and to the practice of muirburning by farmers. There is also some danger later in the season due to the popularity of the area with tourists, hikers, climbers and fishermen who frequent the Forest Park.

The area is subdivided as follows:—

| Forest        | Unit            | District       |                                |
|---------------|-----------------|----------------|--------------------------------|
| Cairn Edward  | Cullendoch      | Gatehouse      | } Area Fire H.Q.<br>Grentrool. |
|               | Bennan          | Dalry          |                                |
|               | Clatteringshaws |                |                                |
| The Garraries | The Garraries   |                |                                |
| Dundeugh      | Dundeugh        | Barr           |                                |
| Carrick       | Balloch         |                |                                |
|               | Starr           |                |                                |
|               | Tairlaw         |                |                                |
| Changue       | Changue         | Newton Stewart |                                |
|               | Kilgrammie      |                |                                |
| Glentrool     | Glentrool       |                |                                |
| Kirroughtree  | Kirroughtree    |                |                                |
| Penninghame   | Penninghame     |                |                                |
| Arcleoch      | Arcleoch        |                |                                |

(APPENDIX I, p. 114, gives representative names and addresses of staff)

### 2. Area Fire Headquarters

An area Fire Headquarters will be set up at Glentrool for the purpose of estimating the daily Fire Hazard (by the Canadian Method), for the co-ordination of mutual assistance between units and for calling in outside help.



- (a) *Area Fire Officer.* A District Officer will be appointed for the general administration of the plan, co-operation between the other District Officers concerned and for liaison with outside sources of assistance (except in the case of the Military and R.A.F. See para. 7 (b)). These duties will be in addition to his normal ones and he will generally remain on call throughout the fire danger season. He will be responsible for proposing amendments to the plan in the light of practical experience and in consultation with the other District Officers.
- (b) *Fire Warden.* During the fire danger season this will be a full-time appointment, filled by a Forester working under the general supervision of the Area Fire Officer. If considered necessary, a relief for the Fire Warden will be arranged by the Area Fire Officer after consultation with S.F.O. It will be the Fire Warden's responsibility to calculate the daily fire hazard from the meteorological data available from the station under his control and that supplied to him by Foresters in charge of out-stations. He will keep a Hazard Book in the form of a daily log, showing the dispositions of all men and equipment on each day for which a grade of hazard exists. In the event of a fire it will be his responsibility to mobilise such men and equipment as are called for by the Forester in charge of the unit at which it occurs. When a serious fire of some duration occurs, he will ask the District Officer concerned to arrange for food and accommodation for fire-fighters in accordance with the Unit Standing Fire Plan.

*Note.* It is emphasised that neither the Area Fire Officer nor the Fire Warden is responsible for the control of actual fire-fighting operations. This is the responsibility of the Officer-in-charge of the fire.

- (c) *Meteorological Station.* Owing to the diversified nature of the area it is inadvisable to rely on data from a single meteorological station. In addition to a main station at *Fire Headquarters* there will be three out-stations at *Kirroughtree*, *Changue* and *Dundeugh*. These will be the responsibility of the Forester-in-charge of these units. The Fire Warden will take readings three times daily at 0800, 1200 and 1500 hrs. G.M.T. or B.S.T. He will receive forecasts daily from Monday to Friday at about 0745 hrs. from the Meteorological Office, Prestwick Airport, which will cover the next 24 hrs. and an outlook for the week-end will also be received on Friday at 1500 hrs. Foresters-in-charge of out-stations will take readings daily at 0800 hrs. and pass on the information to the Fire Warden as detailed in Para. 3. The Fire Warden will calculate the hazard from the information received and will issue this together with the forecast for the next 24 hours daily at 0815 hrs. as detailed in Para. 3 (a). On Friday afternoons between 1515 and 1530 hrs. he will issue a provisional hazard and forecast for the week-end which will be notified to all units and personnel in accordance with Para. 3 (a). He will have authority to issue forecasts on other afternoons if he deems it necessary.

### 3. Fire Hazard Assessment (See also Appendix II, p. 114)

Meteorological stations will report readings at following times:—

|              |   |           |
|--------------|---|-----------|
| Dundeugh     | — | 0800 hrs. |
| Kirroughtree | — | 0805 hrs. |
| Changue      | — | 0810 hrs. |

#### (a) 0815 to 0830 hrs.

1. Fire Warden to report hazard and meteorological report to Kirroughtree, Changue, Dundeugh, Bennan, Penninghame and Arecleoch.



2. Changue will notify its District Officer, Balloch, Starr, Tairlaw and Kilgrammie.
3. Kirroughtree will notify its District Officer, Kilsture and Bareagle.
4. Dundough will notify its District Officer, Corriedoo, and Garcrogo, which will notify its own District Officer.
5. Bennan will notify Clatteringshaws, The Garraries and Fleet. The last will notify Cullendoch, Laurieston, Glengap and its District Officer.

(b) 1515–1530 hrs. on Fridays and other afternoons if necessary

Fire Warden will report provisional hazard and Prestwick forecast for the week-end, or the following day, to all units and personnel in accordance with Para. 3 (a).

When the Warden reports hazard to the Foresters in charge of Class A Units, they will report to him the dispositions of their lorries and fire fighting teams.

At the time of passing information as to their dispositions to the Fire Warden, Foresters-in-charge should also give a personal estimate as to the grade of fire danger at their unit. In the light of this additional information, the Fire Warden may (with the approval of the Area Fire Officer) modify the state of preparedness at that unit with special regard to the degree of patrolling required, curtailment of controlled burning, etc.

It is emphasised that the general grade of hazard for the whole area will be the highest shown at any out-station and not the average.

On receipt of the grade of hazard it will be the responsibility of the Forester-in-charge to put into effect the necessary precautions at his unit.

The following grades of hazard will be used:—

|           |       |          |
|-----------|-------|----------|
| Grade V   | 0     | Nil      |
| Grade IV  | 1–4   | Low      |
| Grade III | 5–8   | Moderate |
| Grade II  | 9–12  | High     |
| Grade I   | 13–16 | Extreme  |

When the grade of hazard is II or I each Forester-in-charge must daily warn his men verbally as to the danger.

All public holidays within the Fire Danger Period will be graded as *at least Grade III*.

(Appendix III, p. 115, gives details of precautions to be taken).

**Flag Poles.** Warning of the daily grade of hazard will be given by coloured flags flown from poles erected at each unit and sited where they are likely to be seen by the greatest number of workers. The Forester-in-charge will be responsible for seeing that the appropriate flags are flown as follows:—

|           |                  |
|-----------|------------------|
| Grade IV  | One yellow flag  |
| Grade III | Two yellow flags |
| Grade II  | One red flag     |
| Grade I   | Two red flags    |

#### 4. Fire Detection and Reporting

Fire detection will be based on the use of look-out towers, supplemented by patrols. Reporting will be by field and public telephone or by radio.

- (a) *Look-outs.* Towers or cabins will be erected on suitable sites to give maximum cover. Where suitable, these will be fitted with devices for taking bearings and all will be connected by telephone or radio to the

forest office. Foresters-in-charge will report all outbreaks at their unit immediately to the Fire Warden, giving the position or bearing from the look-out. Manning of look-out towers under the scale of precautions will be the responsibility of the Forester-in-charge.

(Appendix IV, p. 115, gives the location and responsibility of look-outs.)

- (b) *Patrols.* Mobile patrols will be used to cover areas not adequately served by look-outs. Preferably these should be by motor vehicle except at points much frequented by the public, e.g., The Bruce's Stone, Glentrool.
- (c) *Communications.* To enable speedy reporting by patrols and fire teams, a network of field telephones should be established at those units where public telephones are few and far between. The use of portable instruments which can be plugged in anywhere along the line is recommended. It is also essential that there should be two separate public lines at Area Fire Headquarters, so that one may be kept for emergency calls only. To help with communications and with actual fire-fighting, walkie-talkie wireless sets will be supplied to those units with the greatest need, as they become available.

## 5. Mutual Assistance within the Area Scheme

- (a) *Classification.* In order to clarify the position, forest units within the scheme have been classified in three groups:—

|               |                                            |
|---------------|--------------------------------------------|
| Class A Units | supplying aid to other units.              |
| Class B Units | in emergency supplying aid to other units. |
| Class C Units | dependent on other units.                  |

### *Class A Units*

|              |                                                                                       |
|--------------|---------------------------------------------------------------------------------------|
| Bennan       | : Priority for Clatteringshaws, Corriedoo, Cullendoch, Dundough, Garcrogo, Garraries. |
| Glentrool    | : Priority for Arecleoch, Kilgrammie, Starr, Tairlaw.                                 |
| Kirroughtree | : Priority for Bareagle, Clatteringshaws, Garraries, Kilsture, Penninghame.           |

### *Class B Units*

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| Clatteringshaws: | Aid to Bennan, Corriedoo, Dundough, Garcrogo, Garraries, Kirroughtree.            |
| Dundough         | : Aid to Bennan, Clatteringshaws, Corriedoo, Garcrogo, Garraries, Starr, Tairlaw. |
| Balloch          | : Aid to Arecleoch, Changue, Kilgrammie, Starr, Tairlaw.                          |

### *Class C Units*

|             |         |            |           |
|-------------|---------|------------|-----------|
| Arcleoch    | Changue | Cullendoch | Garraries |
| Penninghame | Starr   | Tairlaw.   |           |

*Class A Units* will have:—

1. Fast and reliable vehicles.
2. Standard fire equipment.
3. Specially trained teams.
4. An Assistant Forester in charge of each team.
5. Motor vehicle with mobile radio.



(b) *Equipment*

(See *Appendix V*, p. 116, for details of disposition.)

Equipment from *Class A and B Units only* will be called on by Fire Warden to go to another unit.

The number of lorries not available during working hours for fire-fighting at each unit should be reported daily to the Fire Warden, who will enter their location in the Hazard Book. Out of working hours, if the grade of hazard warrants it, the Fire Warden may (with the permission of the Area Fire Officer) order a certain number of lorries and drivers to remain on call.

(c) *Labour*. The number of workers available for fire-fighting within the scheme is as detailed in *Appendix VI*, p. 117.

Outside working hours, in the event of an emergency, the following numbers may be contacted at their homes by arrangement with the police:—

|                |                  |         |
|----------------|------------------|---------|
| Newton Stewart | (telephone 100)  | 37 men; |
| Wigtown        | (telephone 3100) | 11 men; |
| Creetown       | (telephone 340)  | 15 men. |

Only Class A and B Units will be called on by the Fire Warden to supply labour to other units.

It is important that no unit is left completely unprotected by sending assistance to other units, and no more than 75% of the labour force at a Class A or Class B Unit may be sent to help at another unit.

Subordinate supervisory staff will accompany labour going to another unit, but the Forester-in-charge will not leave his charge without a direct order from his own District Officer or, in exceptional cases, from the Divisional Officer.

6. *Mutual Assistance Outside the Area Scheme*(a) *Assistance FROM Units outside the Scheme*. The following units outside the area may be called on by the Fire Warden to assist.

- i. Newton Stewart District : Bareagle  
(1st call for Loch Ronald Section,  
Penninghame.)
- ii. Gatehouse District : Fleet  
(1st call for Cullendoch and  
Laurieston.)

(For men and equipment available, see *Appendices V and VI*, pp. 116–117.)

(b) *Assistance TO Units outside the Scheme*. The following units, while not within the scheme, are completely dependent on Class A Units within the Scheme for outside assistance:—

- i. Newton Stewart District Kilsture 1st call on Kirroughtree.
- ii. Dalry District Corriedoo 1st call on Dundegh.
- iii. Dalbeattie District Garcrogo 1st call on Bennan.

Foresters-in-charge of these units will report all fires to the Fire Warden after having, if necessary, called on the appropriate Class A or B Unit for assistance.

In the event of a serious fire at any other unit outside the scheme, the Fire Warden may send assistance on application by the appropriate District Officer and providing adequate reserves are maintained.



## 7. Other Outside Assistance

- (a) *South Western Area Fire Brigade.* The following fire brigade stations are within reach and may be called upon to give assistance:—

|                |                    |
|----------------|--------------------|
| Newton Stewart | Maybole            |
| Girvan         | Dalmellington      |
| Ayr            | Castle Douglas     |
| Colmonell      | Gatehouse-of-Fleet |
| New Galloway   | Dumfries.          |

(*Appendix VII*, p. 117, gives details of men, equipment and telephone numbers.)

As laid down in the Fire Protection Code, the Fire Service should be notified of all fires. This should be done by the Forester-in-charge giving the message "FIRE" or "SERIOUS FIRE" at the unit. The Area Fire Officer will be responsible for liaison with the Firemaster and for arranging suitable combined exercises outside the danger period.

- (b) *H.M. Forces.* Arrangements exist for assistance to be given by members of the Services stationed within reasonable distance. District Officers will be responsible for maintaining liaison with O. i/c H.M. Forces within their districts. Applications for assistance by the Services should be made through Conservator South (S.).

(*Appendix VIII*, p. 118, gives details of military camps, etc.)

- (c) *Forrest Estate.* This dedicated Estate has now been integrated unto the Mid Galloway Plan and is classified as a Class B Unit capable of sending up to 8 men to an outside forest by day.

- (d) *Local Outside Assistance.* Foresters-in-charge should maintain close liaison with neighbouring farmers and others who would be willing to give local assistance. These may be called upon by the Forester himself to help his own squad.

## 8. Fire Rendezvous Points (F.R.P.s)

Fire Rendezvous Points will be established throughout the area and numbered consecutively. These should be situated on a hard road and where possible near a telephone. Maps showing F.R.P.s should be made on the  $\frac{1}{2}$ -inch scale and must be displayed in Area Fire Headquarters, all Forest and District Offices and be carried in all area vehicles. Enough copies should be issued to the South Western Fire Brigade for distribution to each sub fire station. Other copies may be issued as available to the Police, H.M. Forces, landowners, factors, etc., who may be called upon to assist.

(*Appendix IX*, p. 118, gives a list of all F.R.P.s.)

## 9. Action to be Taken in the Event of a Fire

- I. *By Look-outs, Patrols, etc.* The person seeing a fire or suspected fire will immediately report it to the Forester-in-charge, giving its position or bearing.

- II. *By Forester-in-charge.* On receiving a report, the Forester-in-charge will take the following action:—

- Take steps to call in his men to pre-arranged assembly points, by means of rockets, sirens or other means.
- Inform Fire Brigade.
- Inform the Fire Warden, giving position or bearing.
- Proceed with available men to investigate, assess the danger, and do what he can to put it out with his own resources.



- (e) Report back to the Fire Warden as soon as possible that:—
- i. the fire is out;
  - ii. the fire is under control with his own resources;
  - iii. further assistance is required.

If he reports that further assistance is required, he must give his assessment of the danger and the numbers of men and type of equipment required. He will, if necessary, also take steps to set up Fire Control Centre and Fire Control Points as laid down in para. 10 below. He will also give the appropriate F.R.P. number(s).

It will be the responsibility of the Forester-in-charge to make the first attempt to contact his District Officer. If he is not immediately available, the Forester should ask the Fire Warden to make further attempts.

III. *By Fire Warden.* On receiving a report from a Forester-in-charge he will immediately:—

- (a) Inform District Officer concerned.
- (b) Warn all Class A Units to stand by for immediate call.
- (c) Inform appropriate Police Station.
- (d) Inform Conservancy Office or, out of office hours, S.F.O.
- (e) Inform Area Fire Officer.

On receiving a further report that the fire cannot be controlled by local resources, and depending on the Forester-in-charge's assessment of the danger, he will:—

- (f) Call out assistance from Class A and B Units as appropriate.
- (g) Call out S.W. Fire Brigade, if this has not already been done by Forester-in-charge.
- (h) Inform other District Officers.
- (i) Inform all other Foresters-in-charge.

The Fire Warden only informs the District Officer concerned, if this has not already been done by the Forester-in-charge.

The position of the fire and appropriate F.R.P.s. will be quoted in all messages.

IV. *By District Officers.* On being informed that a fire has broken out in his district, the District Officer concerned will take what steps he considers necessary to control the fire. This will include taking personal charge at the Fire Control Point.

## 10. Action to be Taken at a Fire

The following action will be taken by the Officer-in-charge of the fire:—

- (a) *Fire Control Centre.* This will normally be at the nearest public telephone and may often be the Forest Office. It will be permanently manned by a responsible person who will pass messages between the officer-in-charge of the fire and Area Fire Headquarters. All such messages will be recorded in a special book, which will include time of receipt.
- (b) *Fire Rendezvous Point.* All outside assistance will report at the F.R.P. to which they have been directed. This will be permanently manned by a responsible person who will re-direct incoming assistance to the Fire Control Point or elsewhere on the instructions of the officer-in-charge of

the fire. Use must be made of "To the Fire" signs between this point and the F.C.P. to minimise confusion and reduce the use of guides. The man at the F.R.P. will keep a record in a notebook of the times of arrival of all assistance, numbers of men, etc., and pass all such information to the officer-in-charge of the fire.

- (c) *Fire Control Point.* This will be set up by the officer first in charge of the fire (normally the Forester-in-charge) at a point where the fire-fighting can be controlled. It will be indicated by a red disc or pennant by day and a green lantern at night. The location of the Fire Control Point will be reported to Base Control and from there to Area Fire Headquarters. All subsequent changes of location will also be reported. The officer-in-charge will report the arrival of all assistance through Fire Control Centre or direct to Area Fire Headquarters. Communications between Fire Control Point, F.R.P. and Base Control will be maintained by runner, despatch rider, field telephone or walkie-talkie, as available. The officer-in-charge of the fire should have a Fire-Fighting Map on the 6-inch or 2½-inch scale and a Log Book in which all decisions and orders should be recorded. Message pads with duplicate leaves should be used for all messages sent by runners, despatch riders, etc.
- (d) *Assistance.* Men arriving at the fire area will report at the Fire Control Point for instructions from the officer-in-charge of the fire.
- (e) *Reliefs.* In the event of a long fire, the Fire Warden will arrange for the supply of reliefs for both fire-fighters and supervisory staff. He will also assist the District Officer with arrangements for food and accommodation.

#### 11. Action After Fire is Under Control

No one will leave the scene of the fire without direct orders from the officer-in-charge. Patrols will be posted to damp down and see that the fire does not break out again. Suitable steps will be taken to refill water supplies. Squad leaders will check their men before returning to their own units.

#### 12. Fire Reports

The Forester-in-charge of the unit at which the fire occurs will be responsible for preparing reports on necessary forms. It is essential that this should be done as soon as practicable and should include a detailed history of the fire with times clearly noted of the various actions taken, arrival of assistance, etc. (See revised Fire Protection Code.)

#### 13. Revision of the Plan

The Plan will be revised annually at a meeting of the personnel involved.

#### 14. Unit Standing Fire Plans.

These will be prepared by District Officers in accordance with the revised Fire Protection Code, and Mid Galloway Fire Plan.

#### 15. Annual Fire Plans

These will be prepared by Foresters-in-charge for submission with Annual Financial Estimates in accordance with Fire Protection Code.



**16. Maps**

The following maps will be prepared and distributed as shown:—

| <i>Scale</i> | <i>Area Covered</i>          | <i>Distribution</i>                                                                                                                                                                                                                                                        |
|--------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6"           | Each of smaller units        | District Officers, Foresters-in-charge.                                                                                                                                                                                                                                    |
| 2½"          | Larger units and whole area  | Fire Warden (Carrick, Cairn Edward, Glentrool).                                                                                                                                                                                                                            |
|              | Each District                | District Officers.                                                                                                                                                                                                                                                         |
| ½"           | Whole area (showing F.R.P.s) | Conservator, Divisional Officer, Area Fire Officer, District Officers, Fire Warden, Foresters-in-charge, S.W. Fire Brigade, Area F.C. vehicles, and as available, Police, H.M. Forces, etc. (District Officers and Foresters-in-charge of adjoining areas to be included.) |

**17. Distribution of the Plan**

Copies of the plan will be held by the following officers:—

Director (Scotland)

Conservator (South Scotland)

Divisional Officer (West Division of South Scotland)

Area Fire Officer

District Officers—(5)

Foresters: Arecleoch, Balloch, Bareagle, Bennan, Changue, Clattering-shaws, Cullendoch, Dundough, Fleet, Garraries, Glentrool, Kilsture, Kirroughtree, Laurieston, Penninghame, Starr, Tairlaw, Glengap, Garcrogo, Corriedoo, Kilgrammie.

Fire Warden.



## APPENDIX I

## STAFF LIST—ABBREVIATED

|                           |                        |                                                                                                                   |
|---------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Area Fire Officer:</b> | Mr. D. Graham-Campbell | Kirkmulloch, Dalry, Castle Douglas (Tel. Dalry 250).                                                              |
| <b>Fire Warden:</b>       | Mr. H. C. B. Park      | Drumlaw, Glentool Village, Newton Stewart (Tel. Bargrennan 214).                                                  |
| <b>District Officers:</b> |                        |                                                                                                                   |
| Newton Stewart            | Mr. J. D. MacNab       | District Office, Creebridge, Newton Stewart (Tel. 267).<br>(Home) Standalane, Palnure, Newton Stewart (Tel. 276). |
|                           | Mr. J. D. Whitaker     | District Office, Creebridge, Newton Stewart (Tel. 267).                                                           |

(Continues)

**Foresters:**

|           |                     |                                                                                               |
|-----------|---------------------|-----------------------------------------------------------------------------------------------|
| Arcleloch | Mr. D. J. McNaught  | The Aldons, Barrhill, Girvan (Tel. Barrhill 255).<br>(Look-out Hut: Tel. Barrhill 276.)       |
| Bareagle  | Mr. H. O. Armstrong | Rydal Mount, Dunragit, Stranraer.<br>261. (Office) Tel. Dunragit<br>251. (Home) Tel. Dunragit |

(Continues)

## APPENDIX II

## Meteorological Equipment

**A. Main Meteorological Station at Fire Headquarters**

- i. *Thermometers:* 1 set Maximum-Minimum  
1 set Wet and Dry Bulb  
1 Grass Minimum } All these to be mounted in Stevenson type screens.
- ii. *Other Instruments:* 1 Anemometer, Cup contact, Mk. II.  
1 Rain Gauge 5" Mk. II.  
1 Rain Gauge 5" measure.
- iii. *Tables:* 1 set Relative Humidity Tables (M.O.265).  
1 copy set Canadian Fire Hazard Tables.  
(Dominion Forest Service, Forest-Fire Research Note No. 5).  
As in use at Kielder.

**B. Meteorological Out-stations**

The minimum requirements for these are:—

- 1 Rain Gauge 5" measure.
  - 1 Rain Gauge 5" Mk. II.
  - 1 set Wet and Dry Bulb Thermometers
  - 1 set Maximum-Minimum Thermometers
- } In Stevenson type screens.

Wind force will be estimated at out-stations according to the Beaufort Scale.

## APPENDIX III

## Scales of Hazard and Precautions

The arrangements to be made in the case of each grade of hazard are as follows:—

|           |          |                                                                                                                                                                                                                                             |
|-----------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Grade V   | Nil      | } Normal forest work for all personnel except as provided for in the Unit Standing Fire Plan.                                                                                                                                               |
| Grade IV  | Low      |                                                                                                                                                                                                                                             |
| Grade III | Moderate |                                                                                                                                                                                                                                             |
|           |          | All look-outs to be manned.<br>Class A Unit fire teams to be on 10 minutes' mobilisation. Railway patrols to be out, and other patrols out in accordance with Unit Standing Fire Plan. All other personnel on normal work.                  |
| Grade II  | High     | All fire teams to be on immediate mobilisation so far as possible. All lookouts manned and patrols out. All workers grouped for ease of mobilisation. Outside assistance to be warned.                                                      |
| Grade I   | Extreme  | Fire protection takes priority over all other work. All personnel on immediate mobilisation so far as possible, lookouts manned, patrols doubled. No men alone or in groups at work in forest. Hazard to be assessed and reported 4-hourly. |

## APPENDIX IV

## Look-out Towers and Cabins

| <i>Location</i>   | <i>Unit responsible</i> | <i>Area covered</i>                                       |
|-------------------|-------------------------|-----------------------------------------------------------|
| Cairn Edward Hill | Bennan                  | Cairn Edward, Laurieston, Corriedoo                       |
| Benniguinea       | Clatteringshaws         | Cairn Edward, Garraries, Corriedoo                        |
| Dundeugh Hill     | Dundeugh                | Dundeugh, Bennan                                          |
| Glencaird         | Glentrool               | Glentrool                                                 |
| Arroch Hill       | Glentrool               | Glentrool                                                 |
| Glenrazie         | Penninghame             | Penninghame, Kirroughtree                                 |
| Larg Hill         | Changue                 | Changue, Balloch                                          |
| Tairlaw Rig       | Tairlaw                 | Tairlaw, Balloch                                          |
| Craiglee          | Starr                   | Starr                                                     |
| Standard Knowe    | Arecleoch               | Arecleoch, West side of Glentrool, Penninghame            |
| Kenick Hill       | Laurieston              | Cairn Edward (part), Laurieston, Glengap and Fleet (part) |



# APPENDIX V

## Fire Fighting Equipment

| Unit               | Lorries | Vans             | Land Rovers | Land Rovers<br>with water tank | Trailers | Wheeled<br>Trailers<br>for Tractors | Pumps   |                        |        |                       |        |
|--------------------|---------|------------------|-------------|--------------------------------|----------|-------------------------------------|---------|------------------------|--------|-----------------------|--------|
|                    |         |                  |             |                                |          |                                     | Hutaway | Hutaway<br>Hose (feet) | Allman | Allman<br>Hose (feet) | Wizard |
| Bennan             | 2       | 1                |             | 1                              | 1        |                                     | 2       | 1550                   | 2      | 888                   | 19     |
| Glentrool          | 4       | 2                | 1           | 1                              | 1        | 1                                   | 3       | 1000                   | 2      | 400                   | 16     |
| Kirroughtree       | 4       | With<br>W/T<br>1 |             |                                |          | 2                                   | 2       | 3525                   |        |                       | 5      |
| Class A Units      | 10      | 4                | 1           | 2                              | 2        | 3                                   | 8       | 3600                   | 4      | 1288                  | 40     |
| Clatteringshaws    | 1       | 1                |             |                                |          |                                     | 1       | 480                    | 1      | 430                   | 11     |
| Dundeugh           | 1       | 2                |             |                                |          |                                     | 2       | 1620                   | 1      | 600                   | 8      |
| Balloch            | 1       |                  | 1           |                                |          |                                     | 1       | 360                    | 1      | 250                   | 9      |
| Class B Units      | 3       | 3                | 1           |                                |          |                                     | 4       | 2460                   | 3      | 1280                  | 28     |
| Arcleoch           |         | 2                |             |                                |          |                                     | 2       | 1200                   |        |                       | 11     |
| Changue            |         |                  | 1           |                                | 1        |                                     |         |                        | 1      | 250                   | 5      |
| Cullendoch         |         |                  | 1           |                                |          |                                     | 1       | 1000                   | 1      | 250                   | 6      |
| Garraries          | 1       |                  |             | 1                              |          |                                     | 1       | 900                    |        |                       | 6      |
| Penninghame        | 1       |                  |             |                                |          |                                     | 1       | 1200                   |        |                       | 10     |
| Starr              |         | 1                |             |                                | 1        |                                     | 1       | 700                    |        |                       | 4      |
| Tairlaw            |         | 1                |             |                                |          |                                     | 1       | 450                    |        |                       | 6      |
| Class C Units      | 2       | 4                | 2           | 1                              | 2        |                                     | 7       | 5450                   | 2      | 500                   | 48     |
| Mid Galloway Area  | 15      | 11               | 4           | 3                              | 4        | 3                                   | 19      | 11510                  | 9      | 3068                  | 116    |
| Bareagle           | 1       | 1                |             |                                |          |                                     | 1       | 720                    |        |                       | 5      |
| Corriedoo          |         |                  |             |                                |          |                                     | 1       | 500                    |        |                       | 3      |
| Fleet              | 1       | 1                |             |                                |          |                                     | 1       | 1000                   | 1      | 250                   | 7      |
| Garcrogo           |         |                  | 1           |                                | 1        |                                     | 1       | 650                    |        |                       | 4      |
| Glengap            | 1       |                  |             |                                |          |                                     | 1       | 450                    |        |                       | 6      |
| Kilgrammie         |         | 1                |             |                                |          |                                     |         |                        | 1      | 250                   | 9      |
| Kilsture           |         | 1                |             |                                |          |                                     | 1       | 975                    |        |                       | 7      |
| Kyle               |         |                  |             |                                |          |                                     |         |                        |        |                       | 4      |
| Laurieston         | 1       | 1                |             |                                |          |                                     | 1       | 450                    | 1      | 480                   | 7      |
| Total outside Area | 4       | 5                | 1           |                                | 1        |                                     | 7       | 4745                   | 3      | 980                   | 52     |

### APPENDIX VI

#### Labour Available for Fire-Fighting

| <i>District</i>       | <i>Unit and Class</i> | <i>Labour available</i>     |                |
|-----------------------|-----------------------|-----------------------------|----------------|
|                       |                       | <i>During Working Hours</i> | <i>Outwith</i> |
| <i>Newton Stewart</i> | Glentrool (A)         | 60                          | 30             |
|                       | Kirroughtree (A)      | 45                          | 20             |
|                       | Penninghame (C)       | 11                          | 5              |
|                       | Bareagle              | 25                          | 15             |
|                       | Kilsture              | 10                          | —              |
| <i>Dalry</i>          | Bennan (A)            | 25                          | 17             |
|                       | Clatteringshaws (B)   | 12                          | 6              |
|                       | Dundeugh (B)          | 13                          | 10             |
|                       | Garraries (C)         | 8                           | 1              |
|                       | Corriedoo             | 2                           | 2              |
| <i>Barr</i>           | Balloch (B)           | 11                          | 9              |
|                       | Arcleoch (C)          | 9                           | 4              |
|                       | Changue (C)           | 4                           | 3              |
|                       | Starr (C)             | 7                           | 3              |
|                       | Tairlaw (C)           | 10                          | 5              |
|                       | Kilgrammie            | 4                           | 1              |
|                       | Kyle                  | —                           | —              |
| <i>Gatehouse</i>      | Cullendoch (C)        | 6                           | —              |
|                       | Fleet                 | 22                          | 18             |
|                       | Glengap               | 8                           | 4              |
|                       | Laurieston            | 9                           | 10             |
| <i>Dalbeattie</i>     | Carcrogo              | 4                           | 3              |
|                       |                       | 294                         | 157            |

See para. 5 (c)—during working hours, not less than 25% of labour at Class A and B Units must remain at the forest.

### APPENDIX VII

#### South-Western Fire Brigade Stations

*Firemaster:* Mr. H. R. Mackay. *Fire Brigade Headquarters,*  
1 Station Road, Ayr.  
(Tel. 67471-2-3-4)

| <i>Station</i>                | <i>Telephone No.</i> | <i>Personnel</i>                      | <i>Equipment</i>                                                                  | <i>Remarks</i> |
|-------------------------------|----------------------|---------------------------------------|-----------------------------------------------------------------------------------|----------------|
| Newton Stewart<br>(part-time) | Newton Stewart 222   | 1 Sub. O.<br>1 Lead. Fm.<br>8 Firemen | 1 HRT. 100 gall.<br>1 Towing Unit<br>1 Major Trailer pump<br>1 Light Trailer pump |                |
| New Galloway<br>(part-time)   | Dumfries 2222        | 1 Sub. O.<br>1 Lead. Fm.<br>8 Firemen | 1 HRT. 100 gall.<br>1 Major Trailer pump<br>1 Light Trailer pump                  |                |

(Continues for 8 further stations)



## APPENDIX VIII

## Military Assistance, etc.

The Cameronians      Winston Barracks, Lanark.  
Tel. No. LANARK 491.

(Application to be made through Conservator—see para. 7 (b))  
Ministry of Supply      Kirkcudbright Range.  
Tel. No. TOWNHEAD 855.

(Assistance to be called by District Officers)

## APPENDIX IX

## Location of Fire Rendezvous Points

| <i>F.R.P.<br/>No.</i> | <i>Location</i>                                          | <i>Unit</i>         |
|-----------------------|----------------------------------------------------------|---------------------|
| 1                     | Garpel Burn                                              | Starr               |
| 2                     | Girvan Bridge                                            | Tairlaw             |
| 3                     | Bargrennan/Straiton road 200 yds. N. of<br>Tairlaw march | Balloch and Tairlaw |
| 4                     | South Balloch Farm                                       | Balloch             |
| 5                     | Forester's House                                         | Balloch             |

(Continues for 58 further entries)

## APPENDIX X

## Use of Radio

## (1) Radio Control, Discipline and Procedure

(i) Radio will be used in accordance with the instructions in the Fire Code, Section G, sub-sections d, e, f and g. Because of the present distribution of radio equipment, Glentrool Main Station will always remain as Radio Control, and so in the event of one sub-station wanting to speak to another sub-station, permission must first be obtained from Glenfire Control. If a sub-station asks Glenfire Control for permission to speak to another sub-station but fails to make contact with Glenfire Control, it should try a second time and if it still fails to make contact, it should carry on and speak *briefly* to the other sub-station without further delay.

(ii) In all normal transmissions Glenfire Control will be involved and in every such case it will be for Glenfire Control to end the transmission by using the Code Word 'Out'. This ensures that all other stations, some of which may be waiting to broadcast, can hear when the air is free.

(iii) The Callsign 'Glenfire' is to be used at the beginning and end of all transmissions. (See Fire Code Section G e 1).

(iv) In the event of a Mobile or Packset being sent to a fire, etc., at another unit, it will adopt the Callsign of the unit to which it is sent. (For example, if Fox 1 Packset was sent to Clatteringshaws, it would become George 3).

(v) Each set must have its Callsign clearly marked on it. (See Fire Code Section G e 2 (iii)).

## (2) Distribution of Sets

| <i>Station</i>         | <i>Radio Held</i> | <i>Callsign</i>    |
|------------------------|-------------------|--------------------|
| Glentrool Main Station | Main Set          | Glenfire Control   |
| Glentrool Forest       | 1 Mobile Set      | Able Mike          |
|                        | 4 Packsets        | Able 1, 2, 3 and 4 |

| <i>Station</i>         | <i>Radio Head</i> | <i>Callsign</i> |
|------------------------|-------------------|-----------------|
| Bennan Forest          | 1 Mobile Set      | Fox Mike        |
|                        | 3 Packsets        | Fox, 1, 2 and 3 |
| Clatteringshaws Forest | 1 Mobile Set      | George Mike     |
|                        | 2 Packsets        | George 1, 2     |
| Balloch Forest         | 1 Mobile Set      | Oboe Mike       |
|                        | 3 Packsets        | Oboe 1, 2 and 3 |
| Kirroughtree Forest    | 1 Mobile Set      | Baker Mike      |
| Tairlaw Forest         | 3 Packsets        | Queen 1, 2, 3   |
| Garraries Forest       | 1 Mobile Set      | Item Mike       |
|                        | 1 Packset         | Item            |

**(3) Allocation of Callsigns**

|                     |   |           |            |         |
|---------------------|---|-----------|------------|---------|
| Conservator         | — | Zebra     |            |         |
| S.F.O.              | — | Yoke      |            |         |
| Mr. Fergusson       | — | Dog One   |            |         |
| Mr. MacNab          | — | Dog Two   |            |         |
| Mr. Graham-Campbell | — | Dog Three |            |         |
| Mr. Whitaker        | — | Dog Four  |            |         |
| Glentool            | — | Able      | Corriedoo  | — Jig   |
| Kirroughtree        | — | Baker     | Cullendoch | — King  |
| Penninghame         | — | Charlie   | Glengap    | — Love  |
| Arcleloch           | — | Easy      | Laurieston | — Nan   |
| Bennan              | — | Fox       | Balloch    | — Oboe  |
| Clatteringshaws     | — | George    | Starr      | — Peter |
| Dundeugh            | — | How       | Tairlaw    | — Queen |
| Garraries           | — | Item      | Changue    | — Sugar |

**(4) Phonetic Alphabet**

|         |        |       |         |       |
|---------|--------|-------|---------|-------|
| Able    | George | Mike  | Sugar   | Yoke  |
| Baker   | How    | Nan   | Tare    | Zebra |
| Charlie | Item   | Oboe  | Uncle   |       |
| Dog     | Jig    | Peter | Victor  |       |
| Easy    | King   | Queen | William |       |
| Fox     | Love   | Roger | X-ray   |       |

**(5) Important Code Words**

*Correction*—An error has been made in the transmission. The correct version is:—

*I say again*—I am repeating transmission.

*I spell*—I shall spell the next word phonetically.

*Out*—This is the end of my transmission to you. No reply is expected.

*Over*—This is the end of my transmission to you. A reply is necessary.

Go ahead and transmit.

*Roger*—I have received your last transmission satisfactorily.

*Wilco*—I have received your message. I understood it and will comply.

*Say Again*—Repeat all your transmission.

*Wait*—I must pause for a few seconds.

*Wait Out*—I must pause for longer than a few seconds.

*Fire Flash*—Emergency Call for attracting attention of Control Station.

(For use see Fire Code Para. G f 4 (ii) ).



**(6) Examples of Conversations****(1) Sub-station calling Glenfire Control**

"Glenfire Fox Mike to Glenfire Control. Over."

"Glenfire Control to Glenfire Fox Mike. Loud and Clear. Over."

"Loud and Clear . . . . . (conversation follows) . . . . ."

"(End of conversation) Glenfire Fox Mike to Glenfire Control. Over."

"Glenfire Control to Glenfire Fox Mike. Out."

**(2) Sub-station calling another Sub-station**

"Glenfire Fox Mike to Glenfire Control. Over."

"Glenfire Control to Glenfire Fox Mike. Loud and Clear. Over."

"Loud and Clear. May I speak to Fox One. Over."

"Go ahead. Over."

"Fox Mike to Fox One. Over."

"Fox One to Fox Mike. Loud and Clear. Over."

"Loud and Clear . . . . . (conversation follows) . . . . ."

"(End of conversation) Fox One to Fox Mike. Over."

"Glenfire Fox Mike to Glenfire Fox One. Out."

"Glenfire Fox Mike to Glenfire Control. Transmission to Fox One completed. Over."

"Glenfire Control to Glenfire Fox Mike. Roger. Out."