Ancient Monuments Laboratory Report 36/97

WALL PAINTING CONDITION AUDIT, FURNESS ABBEY, CUMBRIA

J Davies

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## Summary

This condition audit of wall paintings at Furness Abbey includes a wall painting record, general audit information, documentation of original materials and execution of the painting, and deterioration and damage including previously used materials and treatment, as well as proposals for treatment and monitoring strategies.

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# Furness Abbey Cumbria

The following report has been generated by the Wall Painting Section database. This archival system provides a computerised record of all wall paintings in English Heritage Historic Properties and is intended to comprehensively document the collection. Each report has been subdivided into four sections to present the data in a clear format. These include:

### 1 Wall Painting Record:

Includes a description of the site and paintings, as well as archival information, such as bibliographic references and photographic records.

#### 2 General Audit Information:

Describes any monitoring undertaken and a synopsis of future conservation requirements.

#### 3 Technique:

Documents the nature and condition of the original materials and execution of the painting which is described according to its stratigraphy and any related analysis.

## 4 Deterioration and damage, added materials, treatment:

Deterioration and damage lists the types of alterations which may have occurred, that is either deterioration (natural alterations such as cracking or delamination) or mechanical damage (such as graffiti).

Added Materials documents all non-original materials present on or within a painting. These may include naturally occurring substances (accretions, such as dirt and dust) or deliberately added materials (coatings, coverings and repairs).

Treatment documents previous interventions and proposed treatment and monitoring strategies.

Throughout each section, an area of painting is assigned a number between 1 and 4 which is intended as a general indication of present condition. These are: 1 good, 2 fair, 3 poor, 4 unacceptable.

This report is based on information gathered prior to March 1996 and does not include any changes in condition, further research or treatment undertaken after this date. Amended editions will be produced as necessary.

# 1 Wall Painting Record

Property name

**FURNESS ABBEY** 

Region

North

County

Cumbria

Location of painting

Chapter house vestibule

Orientation

**NORTH-WEST** 

Century 13th

Date

Height (cm) 20

Width (cm) 20

Subjects included

masonry pattern, double-line

#### Description

Furness Abbey was founded in 1124 by Stephen, then Count of Boulogne and Mortain and later (1135-54) King of England. The Abbey was at first situated in Tulketh, near Preston, but was moved to the more suitable site of Furness in 1127. Furness Abbey was originally ruled under the Order of Savigny, however following the amalgamation of that Order with the Cistercian Order in c.1147, Furness became a Cistercian house. (Dickinson, 1993:14)

Building and expansion of the Abbey continued until at least the middle of the thirteenth century, with further alterations and minor additions until the Dissolution. (Dickinson, 1993:passim) The Abbey was Dissolved on 9 April 1537 (Dickinson, 1993:18). Following the Dissolution the Abbey was owned by a succession of aristocratic families, and passed into the guardianship of the Office of Works in 1923.

Some fragments of red and black double line masonry pattern were found in the northwest corner of the entrance to the Chapter house. The entrance to the Chapter house is formed into a fine vaulted vestibule with 'side arcades of trefoil- headed blind arches, with boldly cut mouldings and bell capitals that formerly had shafts of polished limestone' (Dickinson, 1993:8). The structure and decoration are thought to date to the second quarter of the thirteenth century (Dickinson, 1993:8).

#### **Photographic Record**

JD colour slide 5/95

#### **Bibliography**

Dickinson, J.C. Furness Abbey Cumbria, EH Guide, Crown copyright 1965, published by HMSO 1983, first published by EH 1987, reprinted 1989 and 1993.

Dickinson, J.C. 'Art. VI.- Furness Abbey - an archaeological reconsideration', Trans. C. & W. A. & A.S., n.s., LXVII, 1967. (Copy from CIA file)

St. John Hope, W.H. 'The Abbey of St Mary in Furness, Lancashire', Trans. C. & W. A. & A.S.,1899-1900. (Copy from CIA file)

## 2 General Audit Information

Property name

**FURNESS ABBEY** 

County

Cumbria

Region

North

Location

Chapter house vestibule

Orientation

**NORTH-WEST** 

Century 13th

Date

Height (cm) 20

Width (cm) 20

Auditor(s)

JD

Start date 20/05/95

Overall condition score

4

#### Recommendations

The fragments of masonry pattern are in poor condition and urgently require remedial conservation treatment. (In addition the stone support is in poor condition and could also benefit from conservation.) [Time scale: 2 conservators, 1-2 weeks, as soon as possible].

These painting fragments should also be documented and recorded, and routine inspections undertaken to monitor the condition of the painting.

# 3 Audit Information: Technique

Property name

**FURNESS ABBEY** 

Region

North

County

Cumbria

Location

Chapter house vestibule

Orientation

NORTH-WEST

Century 13th

Date

Height (cm)20

Width (cm) 20

Auditor(s)

JD

Start date 20/05/95

**Overall Condition Score** 

4

<u>Stratigraphy</u>

Support Layer

**Specific condition Score** 

3

Layer type Thickness

00 cm

#### Comments

The red sandstone support is in poor condition. Efflorescent salts are visible over many areas and the stone itself is spalling and eroded. The remains of painted surface are fragmentary and the paint is only present where the walls are relatively sheltered. The pointing has been much repaired with hard unsuitable cement-type mortar, which now stands proud of the eroded stone in many places.

Layer type

**Ground Layer 1** 

**Specific condition Score** 

4

#### **Thickness**

#### Comments

A pinky-cream coloured limewash ground was applied directly to the support layer. Fine striations are present and probably correspond to the strokes of the brush during application. The colouration of the limewash may be due to the presence of pigments or to staining from the red sandstone support. An incised circle was noted in the ground layer on the west wall. It is not clear whether this circle relates to the painted scheme or is of a later date.

Identified pigments Colours

lime white

white

Layer type

Paint Layer 1

Specific condition Score

4

Thickness

.01 cm

## Comments

The paint layer is fragmentary but appears to comprise red and black double-line masonry pattern, with red rosette ornamentation.

Identified pigments Colours

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black

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red

# 4 Audit Information: deterioration and damage, added materials, treatment

Property name

**FURNESS ABBEY** 

Region

North

County

Cumbria

Location

Chapter house vestibule

Orientation

**NORTH-WEST** 

Century 13th

Date

Height (cm) 20

Width (cm) 20

#### **DETERIORATION AND DAMAGE**

#### **Deterioration phenomena**

Type

general erosion

Location

Affects both support and paint layers.

Comments Widespread and severe erosion of the surfaces of support, ground and paint

layers has occurred.

Type

spalling

Location

Sandstone support.

Comments Spalling and loss of the support has occurred and appears to be ongoing.

Type

salt activity

Location

General, over surface of stone and within paint and ground layers.

Comments Salt efflorescences are visible over many areas of the support and within both paint and ground layers. The salts are present as both 'fluffy' needle shaped

efflorescences and small cubic deposits.

Type

flaking

Location

General, ground and paint layers.

Comments Extensive and severe flaking has occurred and still appears to be active. Flaking is probably associated with cycles of salt crystallisation. White cubic crystals are

visible in areas of paint loss due to flaking.

#### ADDED MATERIALS

#### Accretions

Type

salt efflorescences

Location

Surface of stone and within paint and ground layers.

Comments The area is severely contaminated with soluble salts which are undergoing cycles of crystallisation within the surface layers, leading to flaking and loss of painted

decoration and carved mouldings.

Type

cobwebs General.

Location

Comments Many cobwebs are present, some may be holding paint flakes in position.

Extreme care must therefore be taken if they are to be removed.

Type

dust

Location

General.

Comments Surface dust and dirt is present, but is not too disfiguring. The painting is in poor

condition therefore extreme care must be taken if dust is to be removed.

Type

biodeterioration

Location

General, especially sheltered corners.

Comments Green biodeterioration is present and is quite disfiguring.

#### Coatings/Coverings

Type

limewash

Location

Overlying painting in several positions.

Comments A few areas of overlying limewash now remain over masonry pattern. It appears that until relatively recently the whole area may have been covered by limewash which has been lost due to the ongoing deterioration processes affecting the wall.

#### Repairs

Type

modern plaster

Location

Re-pointing of wide joints between stone blocks of support.

Comments The repairs are set deep within the joints of the stone blocks of the support and have an unusual uneven surface with large aggregate particles. The re-pointing mortar is harder that the original stone and at low level it now stands proud of the

eroded adjacent stone in many places.

#### TREATMENT

#### Past Treatment

Type

FILLS/REPAIRS INSERTION

Date

01/01/01

Person

Unknown

Comments It is not known when the repointing was carried out. It is too hard and may also

have contributed to the problem of salt contamination within the wall.

**Proposed Treatment** 

Type

**BIODETERIORATION REMOVAL** 

**Date** 

20/05/95

Person

Comments Removal of biodeterioration may clarify the presentation of the decoration and

prevent deterioration processes associated with such activity.

Type

**DUSTING** 

Date

20/05/95

Person

JD

Comments Removal of surface dirt may clarify the presentation of the decoration, however

the painting is in an extremely fragile state and the removal of dirt is not a priority.

Type

FILLS/REPAIRS REMOVAL

Date

20/05/95

Person

JD

Comments The re-pointing mortar is very hard and unsuitable. It may also have contributed

to the problem of salt contamination within the wall. However it may be very difficult to remove this mortar without causing extensive damage to the relatively soft original fabric. Trial removal of a small section to establish the feasibility of

full removal may be appropriate.

Type

**FLAKE FIXING** 

Date

20/05/95

Person

JD

Comments Flake fixing of the limewash ground and paint layers is urgently required.

Type

MONITORING CONDITION

Date

20/05/95

Person

JD

Comments The painting is in an extremely poor condition and appears to be undergoing

active deterioration. It is therefore crucial that the painting is monitored and

conserved as necessary.

Type

SALT REMOVAL

Date

20/05/95

Person

JD

Comments As the area of wall supporting the painting is contiguous with the main fabric of

the Abbey and is in addition quite thick it may not prove possible to achieve satisfactory desalination. However the possibility of this intervention should be

further considered.

Type

**UNCOVERING** 

Date

20/05/95

Person

JD

Comments Removal of overlying limewash layers may reveal further areas of decoration. However this should be weighed against the protection afforded to underlying

paint by the presence of covering layers.

Type

UNSPECIFIED

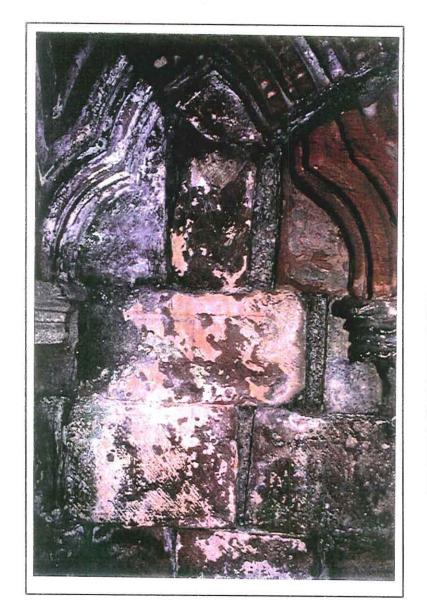
Date

20/05/95

Person

JD

Comments The painting is in an extremely poor condition and appears to be undergoing active deterioration. It is therefore crucial that the painting is monitored and conserved as necessary. It is realistic to assume that it will not be possible to prevent all future deterioration of the painting as it is in an exposed and vulnerable position. It is therefore important to document and record the remaining paint fragments in detail.





Detail, masonry pattern within northwest blind arcade

Vestibule into Chapter House, northwest blind arcade, north side