APPENDIX 1

This appendix gives some representative knowledge FORMS in their LISP form. In this work FORMs have been implemented by employing nested association lists. The FORM structure has been stored on the property list of the name of the FORM under the property "form".

A1 FORMS IN LISP

A1.1 Form representing the Section 25 FFF.

(25FFF
  (TYPE (VALUE SECTION))
  (HEADING (VALUE retrenchment compensation))
  (status (VALUE S))
  (MORE-GENERAL (VALUE CHAP-V-A))
  (MORE-SPECIFIC (VALUE '(25FFF1 25FFF2))
  (HAS-PARTS (VALUE 2))
  (FIND-FACT (VALUE 'work-nature)
    (TRIGG (utilize '(nature-of-work))))
  (USERULES (VALUE '(RL025 RL026))
    (ADOPT (The nature of work is not building-construction)) )
)

A1.2 Form representing Part 1 of the Section 25FFF.

(25FFF1
  (type (VALUE part))
  (more-general (VALUE 25fff))
  (FIND-FACT (VALUE 'PCS)
    (TRIGG (use-sec '25B)))
  (userules (VALUE '(RL084 RL085 RL086))))
A1.3 Form representing the Section 25 B.

(25B
  (TYPE (VALUE SECTION))
  (HEADING (VALUE continuous service))
  (status (VALUE S))
  (MORE-GENERAL (VALUE CONSULT))
  (MORE-SPECIFIC (VALUE '(25B1 25B2)))
  (HAS-PARTS (VALUE 2))
  (FIND-FACT (VALUE 'service)
              (TRIGG (utilize '(service))))
  (FIND-FACT (VALUE 'work-level)
              (TRIGG (utilize '(work-level))))
  (USERULES (VALUE '(RL051 RL052))
              (ADOPT (The service is uninterrupted))))

A1.4 Form representing Part 2 of Section 25 B.

(25B2
  (TYPE (VALUE PART))
  (MORE-GENERAL (VALUE 25B))
  (UTILIZE (VALUE '((process-interrupt-info)
                   (PCS-1))))
  (USERULES (VALUE '(RL065 RL066))
              (ADOPT (The workman works above the
ground level ))))