**Bilag 1: Modelligninger i DLU**

```
D      fCfm        = 1.63936 + 0.71028*(fCf(-1)-0.25*Et(-1)/pcf(-1))/U(-1) $
D      fCnm        = 0.27038 + 0.85504*(fCn(-1)-0.14*Et(-1)/pcn(-1))/U(-1) $
D      fCim        = 0.63925 + 0.75366*(fCi(-1)-0.05*Et(-1)/pci(-1))/U(-1) $
D      fCem         = 0.08961 + 0.80103*fCe(-1)/U(-1) + 0.00227*fros $
D      fCgbkm      = 0.36141
                     + 0.80615*(fCgbk(-1)-0.13*Et(-1)/pcgbk(-1))/U(-1) $
D      fCvm        = 0.53875 + 0.67584*(fCv(-1)-0.05*Et(-1)/pcv(-1))/U(-1) $
D      fCsm        = 0.48877 + 0.87358*(fCs(-1)-0.38*Et(-1)/pcs(-1))/U(-1)
                     + 0.29622*d82 $
D      fCtm        = 0.01286 + 0.89884*fCt(-1)/U(-1) $
D      Czm         = pcf*( (1-dfcf)*fCfm+(1-dfcf)*JfCf/U
                           +dfcf*(ZfCf/U-0.25*Et/(pcf*U)) )
                     + pcn*( (1-dfcn)*fCnm+(1-dfcn)*JfCn/U
                             +dfcn*(ZfCn/U-0.14*Et/(pcn*U)) )
                     + pci*( (1-dfci)*fCim+(1-dfci)*JfCi/U
                             +dfci*(ZfCi/U-0.05*Et/(pci*U)) )
                     + pce*( (1-dfce)*fCem+(1-dfce)*JfCe/U
                             +dfce*ZfCe/U )
                     + pcgbk*( (1-dfcgbk)*fCgbkm+(1-dfcgbk)*JfCgbk/U
                               +dfcgbk*(ZfCgbk/U-0.13*et/(pcgbk*U)) )
                     + pcv*( (1-dfcv)*fCvm+(1-dfcv)*JfCv/U
                             +dfcv*(ZfCv/U-0.05*Et/(pcv*U)) )
                     + pcs*( (1-dfcs)*fCsm+(1-dfcs)*JfCs/U
                             +dfcs*(ZfCs/U-0.38*Et/(pcs*U)) )
                     + pct*( (1-dfct)*fCtm+(1-dfct)*JfCt/U
                             +dfct*ZfCt/U ) $
SJ_D   fCf         = ( fCfm
                       +( 0.08933
                          /( 1-dfcn*0.05862
                             -dfci*0.20773
                             -dfce*0.07884
                             -dfcgbk*0.18921
                             -dfcv*0.20166
                             -dfcs*0.10857
                             -dfct*0.06604 ) )
                       *(Cp4xh/U-Czm)/pcf )
                     *U + 0.25*Et/pcf $
SJ_D   fCn         = ( fCnm
                       +( 0.05862
                          /( 1-dfcf*0.08933
                             -dfci*0.20773
                             -dfce*0.07884
                             -dfcgbk*0.18921
                             -dfcv*0.20166
                             -dfcs*0.10857
                             -dfct*0.06604 ) )
                       *(Cp4xh/U-Czm)/pcn )
                     *U + 0.14*Et/pcn $
SJ_D   fCi         = ( fCim
                       +( 0.20773
                          /(1-dfcf*0.08933
                            -dfcn*0.05862
                            -dfce*0.07884
                            -dfcgbk*0.18921
                            -dfcv*0.20166
                            -dfcs*0.10857
                            -dfct*0.06604 ) )
                       *(Cp4xh/U-Czm)/pci )
                     *U + 0.05*Et/pci $
SJ_D   fCe         = ( fCem
                       +( 0.07884
                          /(1-dfcf*0.08933
                            -dfcn*0.05862
                            -dfci*0.20773
                            -dfcgbk*0.18921
                            -dfcv*0.20166
                            -dfcs*0.10857
                            -dfct*0.06604 ) )
                       *(Cp4xh/U-Czm)/pce )
```

```
                    *U $
SJ_D   fCgbk       = ( fCgbkm
                      +(0.18921
                        /(1-dfcf*0.08933
                          -dfcn*0.05862
                          -dfci*0.20773
                          -dfce*0.07884
                          -dfcv*0.20166
                          -dfcs*0.10857
                          -dfct*0.06604 ) )
                      *(Cp4xh/U-Czm)/pcgbk )
                    *U + 0.13*Et/pcgbk $
SJ_D   fCv         = ( fCvm
                      +(0.20166
                        /(1-dfcf*0.08933
                          -dfcn*0.05862
                          -dfci*0.20773
                          -dfce*0.07884
                          -dfcgbk*0.18921
                          -dfcs*0.10857
                          -dfct*0.06604 ) )
                      *(Cp4xh/U-Czm)/pcv )
                    *U + 0.05*Et/pcv $
SJ_D   fCs         = ( fCsm
                      +(0.10857
                        /(1-dfcf*0.08933
                          -dfcn*0.05862
                          -dfci*0.20773
                          -dfce*0.07884
                          -dfcgbk*0.18921
                          -dfcv*0.20166
                          -dfct*0.06604 ) )
                      *(Cp4xh/U-Czm)/pcs )
                    *U + 0.38*Et/pcs $
SJ_D   fCt         = ( fCtm
                      +(0.06604
                        /(1-dfcf*0.08933
                          -dfcn*0.05862
                          -dfci*0.20773
                          -dfce*0.07884
                          -dfcgbk*0.18921
                          -dfcv*0.20166
                          -dfcs*0.10857 ) )
                      *(Cp4xh/U-Czm)/pct )
                    *U $
```

## Bilag 2: Ligninger i DLUX

```
D____Z   CZM      =pcf*fcfm+pcn*fcnm+pci*fcim+pce*fcem+
                   pcgbk*fcgbkm+pcv*fcvm+pcs*fcsm+pct*fctm$
D____Z   JFCF     =dfcf*1/(1-0.08933)*(ZFCF-((FCFM+0.08933
                   *(CP4XH/U-CZM-
                   (pcn*jfcn+pci*jfci+pce*jfce+pcgbk*jfcgbk
                    +pcv*jfcv+pcs*jfcs+pct*jfct)/U
                   )/PCF)*U+0.25*ET/PCF))$
D____Z   JFCN     =dfcn*1/(1-0.05862)*(ZFCN-((FCNM+0.05862
                   *(CP4XH/U-CZM-
                   (pcf*jfcf+pci*jfci+pce*jfce+pcgbk*jfcgbk
                    +pcv*jfcv+pcs*jfcs+pct*jfct)/U
                   )/PCN)*U+0.14*ET/PCN))$
D____Z   JFCI     =dfci*1/(1-0.20773)*(ZFCI-((FCIM+0.20773
                   *(CP4XH/U-CZM-
                   (pcf*jfcf+pcn*jfcn+pce*jfce+pcgbk*jfcgbk
                    +pcv*jfcv+pcs*jfcs+pct*jfct)/U
                   )/PCI)*U+0.05*ET/PCI))$
D____Z   JFCE     =dfce*1/(1-0.07884)*(ZFCE-((FCEM+0.07884
                   *(CP4XH/U-CZM-
                   (pcf*jfcf+pcn*jfcn+pci*jfci+pcgbk*jfcgbk
                    +pcv*jfcv+pcs*jfcs+pct*jfct)/U
                   )/PCE)*U))$
D____Z   JFCGBK   =dfcgbk*1/(1-0.18921)*(ZFCGBK-((FCGBKM+0.18921
                   *(CP4XH/U-CZM-
                   (pcf*jfcf+pcn*jfcn+pci*jfci+pce*jfce
                    +pcv*jfcv+pcs*jfcs+pct*jfct)/U
                   )/PCGBK)*U+0.13*ET/PCGBK))$
D____Z   JFCV     =dfcv*1/(1-0.20166)*(ZFCV-((FCVM+0.20166
                   *(CP4XH/U-CZM-
                   (pcf*jfcf+pcn*jfcn+pci*jfci+pce*jfce+pcgbk*jfcgbk
                    +pcs*jfcs+pct*jfct)/U
                   )/PCV)*U+0.05*ET/PCV))$
D____Z   JFCS     =dfcs*1/(1-0.10857)*(ZFCS-((FCSM+0.10857
                   *(CP4XH/U-CZM-
                   (pcf*jfcf+pcn*jfcn+pci*jfci+pce*jfce+pcgbk*jfcgbk
                    +pcv*jfcv+pct*jfct)/U
                   )/PCS)*U+0.38*ET/PCS))$
D____Z   JFCT     =dfct*1/(1-0.06604)*(ZFCT-((FCTM+0.06604
                   *(CP4XH/U-CZM-
                   (pcf*jfcf+pcn*jfcn+pci*jfci+pce*jfce+pcgbk*jfcgbk
                    +pcv*jfcv+pcs*jfcs)/U
                   )/PCT)*U))$
```

## Bilag 3: Ordrer til at finde J-led

```
GENR CZM = PCF*FCFM+PCN*FCNM+PCI*FCIM+PCE*FCEM+
           PCGBK*FCGBKM+PCV*FCVM+PCS*FCSM+PCT*FCTM$
GENR   JFCF     = (FCF-((FCFM+0.08933
              *(CP4XH/U-CZM)/PCF)*U+0.25*ET/PCF))$
GENR   JFCN     = (FCN-((FCNM+0.05862
              *(CP4XH/U-CZM)/PCN)*U+0.14*ET/PCN))$
GENR   JFCI     = (FCI-((FCIM+0.20773
              *(CP4XH/U-CZM)/PCI)*U+0.05*ET/PCI))$
GENR   JFCE     = (FCE-((FCEM+0.07884
              *(CP4XH/U-CZM)/PCE)*U))$
GENR   JFCGBK   = (FCGBK-((FCGBKM+0.18921
              *(CP4XH/U-CZM)/PCGBK)*U+0.13*ET/PCGBK))$
GENR   JFCV     = (FCV-((FCVM+0.20166
              *(CP4XH/U-CZM)/PCV)*U+0.05*ET/PCV))$
GENR   JFCS     = (FCS-((FCSM+0.10857
              *(CP4XH/U-CZM)/PCS)*U+0.38*ET/PCS))$
GENR   JFCT     = -(PCF*JFCF+PCN*JFCN+PCI*JFCI+PCE*JFCE
                          +PCGBK*JFCGBK+PCV*JFCV+PCS*JFCS)/PCT$
```