COMMISSION DECISION

of 5 September 1996

amending for the second time Decision 92/469/EEC authorizing methods for grading pig carcases in Denmark

(Only the Danish text is authentic)

(96/551/EC)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Council Regulation (EEC) No 3220/84 of 13 November 1984 determining the Community scale for grading pig carcases (¹), as last amended by Regulation (EC) No 3513/93 (²), and in particular Article 5 (2) thereof,

Whereas the Commission, by Decision 92/469/EEC (³), as amended by Decision 94/564/EC (⁴), has authorized different methods for grading pig carcases in Denmark;

Whereas the Danish Government has requested the Commission to authorize the use of two new methods for grading pig carcases and the use of new formulae for calculating the lean meat content of carcases under the existing grading methods 'KC' and 'FOM/MK'; whereas the information required pursuant to Article 3 of Commission Regulation (EEC) No 2967/85 of 24 October 1985 laying down detailed rules for the application of the Community scale for grading pig carcases (⁵) has been submitted; whereas evaluation of the request has shown the conditions for authorizing the said methods of grading and the new formulae to be fulfilled;

Whereas the grading method 'Ultra-FOM' is no longer used in Denmark and it is therefore justified to revoke the authorization for this grading method;

Whereas the measures provided for in this Decision are in accordance with the opinion of the Management Committee for Pigmeat,

HAS ADOPTED THIS DECISION:

Article 1

Decision 92/469/EEC is hereby amended as follows:

1. Article 1 is replaced by the following text:

'*Article 1*

The use of the following methods is hereby authorized for grading pig carcases pursuant to Regulation (EEC) No 3220/84 in Denmark:

(¹) OJ No L 301, 20. 11. 1984, p. 1.
(²) OJ No L 320, 22. 12. 1993, p. 5.
(³) OJ No L 265, 11. 9. 1992, p. 39.
(⁴) OJ No L 215, 20. 8. 1994, p. 25.
(⁵) OJ No L 285, 25. 10. 1985, p. 39.

— the apparatus termed "Klassificeringscenter" (KC) and the assessment method related thereto, details of which are given in Part 1 of the Annex,

— the apparatus termed "Fat-O-Meater/Manuel Klassificering" (FOM/MK) and the assessment method related thereto, details of which are given in Part 2 of the Annex,

— the apparatus termed "Uni-Fat-O-Meater" (Unifom) and the assessment method related thereto, details of which are given in Part 3 of the Annex,

— the apparatus termed "Fully automatic ultrasonic carcase grading" (Autofom) and the assessment method related hereto, details of which are given in Part 4 of the Annex.'

2. Part 1 of the Annex is amended as follows:

(a) The formula under point 3 (a) is replaced by the following:

$$'\hat{y} = 62,941 - 0,1706\,x_1 - 0,0818\,x_2 - 0,1645\,x_3 - 0,1964\,x_4 - 0,1005\,x_5 - 0,2553\,x_6 - 0,1813\,x_7 + 0,0853\,x_8 + 0,0452\,x_9 + 0,0513\,x_{10} + 0,0427\,x_{11}'$$

(b) In the last phrase of point 4, '100 kg' is replaced by '110 kg'.

3. Part 2 of the Annex is amended as follows:

(a) The formula under point 3 (a) is replaced by the following:

$$'\hat{y} = 65,29152 - 0,2106379\,x_1 - 0,61076\,x_2 + 0,1128888\,x_3 + 0,02276837\,x_4'$$

(b) In the last phrase of point 3, '100 kg' is replaced by '110 kg'.

4. Part 3 of the Annex is replaced by the text given in the Annex to this Decision.

5. Part 4 given in the Annex to this Decision is added to the Annex.

Article 2

This Decision is addressed to the Kingdom of Denmark.

Done at Brussels, 5 September 1996.

For the Commission

Franz FISCHLER

Member of the Commission

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ANNEX

'PART 3

Uni-Fat-O-Meater (UNIFOM)

1. Grading of pig carcases shall be carried out by means of the apparatus termed "Uni-Fat-O-Meater" (Unifom).

2. The apparatus is the same as the apparatus described under point 2 of Part 2. However, Unifom differs from FOM/MK with regard to computer and software for the interpretation of the reflection profile from the optical probe. Furthermore, Unifom is not connected with the weighing instrument, so that the slaughter weight can be included directly in the calculation of the lean meat percentage.

3. The lean meat content of the carcase shall be calculated according to the following formula:

$$\hat{y} = 67{,}520066 - 0{,}1240656\,x_1 - 0{,}8717984\,x_2 + 0{,}1088299\,x_3$$

where:

$\hat{y}$ = the estimated percentage of lean meat in the carcase,

x_1 = the thickness of backfat (^{1}) in millimetres, measured at 8 cm off the midline of the carcase, between the third and fourth last lumbar vertebrae,

x_2 = the thickness of backfat (^{1}) in millimetres, measured at 6 cm off the midline of the carcase, between the third and fourth last ribs,

x_3 = the thickness of muscle in millimetres, measured at the same time and in the same place as x_2.

The formula shall be valid for carcases weighing between 50 and 110 kg.'

'PART 4

Fully automatic ultrasonic carcase grading (Autofom)

1. Grading of pig carcases shall be carried out by means of the apparatus "Fully automatic ultrasonic carcase grading" (Autofom).

2. The apparatus shall be equipped with 16 ultrasonic transducers, 2MHz (Krautkrämer, SFK 2 NP) with an operating of 25 mm between each tansducer.

   The ultrasonic data cover three major parts of the carcase and comprise three fat thicknesses and one muscle depth. The remaining parameters are related to the above parameters.

   The results of the measurements are converted into estimated lean mean content by means of a central data-processing unit.

3. The lean meat content of the carcase shall be calculated on the basis of 127 individual measuring points according to the following formula:

$$
\begin{aligned}
\hat{y} = {} & 59{,}24000168 - 0{,}030622402\,x_1 - 0{,}0559959\,x_2 - 0{,}025685901\,x_3 - 0{,}0115708\,x_4 - 0{,}0364976\,x_5 \\
& - 0{,}019477801\,x_6 - 0{,}0157021\,x_7 - 0{,}028626302\,x_8 - 0{,}0132835\,x_9 - 0{,}012896401\,x_{10} \\
& - 0{,}026035002\,x_{11} - 0{,}00185023\,x_{12} - 0{,}0136233\,x_{13} - 0{,}048098601\,x_{14} - 0{,}0204149\,x_{15} \\
& - 0{,}0178324\,x_{16} - 0{,}041277599\,x_{17} - 0{,}020299699\,x_{18} - 0{,}0206571\,x_{19} - 0{,}040948\,x_{20} \\
& - 0{,}014101701\,x_{21} - 0{,}0245975\,x_{22} - 0{,}048922502\,x_{23} - 0{,}018260401\,x_{24} + 0{,}0050389\,x_{25} \\
& + 0{,}0103042\,x_{26} + 0{,}0022657\,x_{27} + 0{,}00243124\,x_{28} + 0{,}008291731\,x_{29} + 0{,}00578348\,x_{30} \\
& - 0{,}0017511\,x_{31} + 0{,}00803249\,x_{32} - 0{,}000173443\,x_{33} - 0{,}00513116\,x_{34} + 0{,}00469745\,x_{35} \\
& + 0{,}000372995\,x_{36} - 0{,}00014972\,x_{37} - 0{,}00113224\,x_{38} + 0{,}000434787\,x_{39} + 0{,}00121559\,x_{40} \\
& - 0{,}00312394\,x_{41} - 0{,}00203788\,x_{42} + 0{,}25331402\,x_{43} - 0{,}0197071\,x_{44} + 0{,}0249134\,x_{45} \\
& + 0{,}0494201\,x_{46} + 0{,}00279633\,x_{47} + 0{,}053343497\,x_{48} + 0{,}022081601\,x_{49} + 0{,}051484603\,x_{50} \\
& + 0{,}039685801\,x_{51} - 0{,}00879017\,x_{52} - 0{,}00845072\,x_{53} - 0{,}00725005\,x_{54} - 0{,}0103406\,x_{55} \\
& - 0{,}021988701\,x_{56} - 0{,}025504801\,x_{57} - 0{,}026593\,x_{58} - 0{,}067017801\,x_{59} - 0{,}068600304\,x_{60} \\
& - 0{,}062353503\,x_{61} - 0{,}049126402\,x_{62} - 0{,}070018396\,x_{63} - 0{,}076502904\,x_{64} - 0{,}071316704\,x_{65} \\
& - 0{,}0104453\,x_{66} - 0{,}0116967\,x_{67} - 0{,}000348352\,x_{68} + 0{,}015280101\,x_{69} - 0{,}00395203\,x_{70} \\
& - 0{,}026739201\,x_{71} - 0{,}035513401\,x_{72} - 0{,}00254834\,x_{73} - 0{,}00432901\,x_{74} - 0{,}0049929\,x_{75} \\
& - 0{,}00576441\,x_{76} - 0{,}00676548\,x_{77} - 0{,}00772101\,x_{78} - 0{,}042503901\,x_{79} - 0{,}048328102\,x_{80} \\
& - 0{,}055129498\,x_{81} - 0{,}059772301\,x_{82} - 0{,}0645658\,x_{83} - 0{,}067458406\,x_{84} + 0{,}016674001\,x_{85} \\
& + 0{,}0148772\,x_{86} + 0{,}013334701\,x_{87} + 0{,}010916\,x_{88} + 0{,}00617342\,x_{89} + 0{,}00379121\,x_{90} \\
& - 0{,}034854501\,x_{91} - 0{,}075036302\,x_{92} - 0{,}0275991\,x_{93} + 0{,}000509895\,x_{94} - 0{,}000547192\,x_{95} \\
& - 0{,}00133919\,x_{96} + 0{,}000919671\,x_{97} - 0{,}000180694\,x_{98} - 0{,}00297095\,x_{99} - 0{,}001185\,x_{100} \\
& - 0{,}00388737\,x_{101} - 0{,}00329167\,x_{102} - 0{,}00305314\,x_{103} - 0{,}00351509\,x_{104} - 0{,}00314768\,x_{105} \\
& - 0{,}00292778\,x_{106} - 0{,}00229802\,x_{107} - 0{,}00209384\,x_{108} - 0{,}00177929\,x_{109} - 0{,}00121272\,x_{110} \\
& - 0{,}000435302\,x_{111} + 0{,}000315525\,x_{112} + 0{,}00126716\,x_{113} + 0{,}00265209\,x_{114} + 0{,}0147121\,x_{115} \\
& + 0{,}0239079\,x_{116} + 0{,}025629202\,x_{117} + 0{,}0204865\,x_{118} + 0{,}019831302\,x_{119} + 0{,}0182009\,x_{120} \\
& + 0{,}015869601\,x_{121} + 0{,}0250687\,x_{122} + 0{,}025464201\,x_{123} + 0{,}025771502\,x_{124} + 0{,}020633401\,x_{125} \\
& + 0{,}020213\,x_{126} + 0{,}0225557\,x_{127}
\end{aligned}
$$

where:

$\hat{y}$ = the estimated percentage of lean meat in the carcase.

4. The description of the measurement points and the description of the statistical method are laid down in the Danish Protocol, Part II, submitted to the Commission under the terms of Article 3 (3) of Commission Regulation (EEC) No 2967/85.

The formula shall be valid for carcases weighing between 50 and 110 kg.'