the measures to be adopted and was forbidden to speak. Later that day at another meeting-of the local administrators of the Séveso region-the representative, Dr Guiseppi Reggiani, Director of Clinical Research for Roche, stressed to the Health Assessor, Dr Rivolta, the necessity and urgency of evacuating the population at Séveso exposed to the highest concentrations of dioxin. Rivolta asked him to put his concern in writing. The report says that this request was complied with on 24 July in a letter (signed by Givaudan's president, Dr Guv Waldwogel). At the same time, the report adds, a map of the polluted area was handed over, with the first quantitative data on the pollution released by Givaudan. The map contained the results of analyses of 44 environmental samples. The Lombardy Region report suggests therefore, that Givaudan and Roche played a far larger role in documenting the pollution at Séveso than the Parliamentary Commission gives them credit for.

On the 19 July however, Givaudan claims that the two Italian scientists Ghetti and Cavalloro, who visited the company's laboratory near Zurich, received most of this data—albeit from some 36 environmental samples. If this is true why does the Parliamentary Commission report not mention it? (Nature has ascertained that this information was presented to the commission during a six hour meeting) and why had the Italian authorities not even considered an evacuation by 23 July when they knew of the dioxin contamination on 20 July?

The Parliamentary Commission report admits that the laboratory facilities and expertise required to assess dioxin contamination at Séveso were not available in Italy. This is one reason why Ghetti and Cavalloro were provided with the necessary dioxin standards when they visited Givaudan on 19 July. Dr Cavalloro declined to tell Nature the number of measurements his laboratory had made between 20 July and 11.00 p.m. on 23 July. Asked about the differences between the reports of the Parliamentary Commission and Lombardy Region he felt he was not competent to answer and that as it was a political question it should be directed to the Lombardy Regional Government. He and his colleagues, he technicians". said, were

Signor Cesare Golfari, President of the Lombardy Regional Government told Nature that he thought the Parliamentary Commission Report was "good for the Regional Government". In his opinion, it gave an adequate account of events at Séveso. Roche, too, welcomes the overall objectivity of the commission's report—the commission

was eqaully scathing of Roche, Givaudan and many of the Italian authorities. A spokesman for Roche, however, described the commission's report as telling a "twisted tale". He said that he "certainly" knew that the commission's charge that Givaudan had not informed its workers at ICMESA about the hazards of dioxin was true. He also said that all but 6 or 8 of some 6,000 civil claims for damages against Roche had been settled and conceded that the lawyers had recommended prompt settlement of claims to avoid a higher bill if the criminal court case went against the company.

The criminal prosecution is in the hands of the Italian Judiciary. The court will consider whether or not Givaudan was negligent in its maintenance of the trichlorophenol reactor at Séveso, and whether it could have informed people more quickly after the accident of the danger they faced. The hearing is unlikely to take place for some time however, for the judge originally appointed to deal with the case has recently been promoted and his successor will need some time to familiarise himself with the background to the case.

Until the court hearings are available, the Parliamentary Commission report will remain the most comprehensive appraisal of the accident at Séveso. Britain's Health and Safety Executive (HSE), is to have the document translated. When that is available much of what happened at Séveso will be available for public scrutiny outside Italy

Genetic manipulation: Britain may exempt "self-cloning"

Britain's Genetic Manipulation Advisory Group will meet this week to reconsider issues which have been bothering the group for some time particularly the definition of genetic manipulation and whether it should include "self-cloning" experiments.

These are experiments in which the genes of a bacterium are cloned within the bacterium itself—such as E. coli within E. coli—which are already exempted from control under the revised US National Institutes of Health guidelines.

GMAG has been under considerable pressure from bacteriologists-and lately the Royal Society (see Nature, 15 February, page 509)—to relax its control of such experiments, which form a substantial proportion of potential recombinant DNA research; and now it appears to be responding. Even if GMAG decides in favour of a strict definition of recombinant DNA experiments which includes cloning, it is felt that it will move to exempt the experiments from categorisation.

At its last meeting GMAG decided "in principle" to adopt the new risk assessment scheme devised by Sydney Brenner—but only for a trial period of about one year. Four proposals for experiments have already been received for consideration by risk assessment, including one application for downgrading, and two have already been assessed. In these cases the categorisation was the same as it would have been under the phylogenetic Williams guidelines, so there was no conflict, but members of GMAG are known to be worried about cases where there is

disagreement. It is felt that much is yet to be learned about real risk factors, and that much more research on them needs to be undertaken before risk assessment can be firmly established.

Meanwhile the "technical panel"—which will make the assessments and advise the Medical Research Council and Health and Safety Executive on risk research that needs to be undertaken—is being established under the chairmanship of Professor Peter Walker of the University of Edinburgh, a man who has been not uncritical of excessive control of recombinant DNA research.

The technical panel will have some nine "core" members, including representatives of GMAG and outside experts, and will also co-opt special expertise when necessary.

This week's meeting of GMAG will be a particularly interesting one for it may be the first at which the deeper views of its seven new members (out of a total of 19) will be tested. The last meeting was concerned with a detailed discussion of the risk assessment scheme, and like many of the regular GMAG meetings it failed to address—or at least reach decisions on—certain matters of principle such as the basic definition of its area of competence. Hence this week's extraordinary meeting, called specifically to address these questions.

If the meeting reaches its conclusions rapidly. GMAG will publish a short document for researchers outlining its new policy. A full note will be issued in due course.

Robert Walgate