

Table 3

Growth of the IAEA

	TOTAL IAEA EXPENDITURES (actual obligations) (\$US millions)	IAEA TOTAL STAFF	SAFEGUARDS			
			No. of Inspections	No. of Installations under Safeguards	Safeguards Division Expenditures (\$US millions)	Safeguards Division Total Staff
1966	8.9	731	29	55	0.4	(24)*
1976	35.4	1232	565	332	5.9	138
1986	114	1994	2050	910	39.9	455

* Figure is for 1967
Source: Various IAEA documents

The Agency's ability to integrate findings across MBAs is another point of difficulty. If safeguards are applied only at the level of specific MBAs, there is some danger of "partitioning," that is, diversions of small quantities of material at a number of points. An integrated system based on an entire facility would permit cross-checking among MBAs. A system applied to a state's entire fuel cycle would allow cross-checking of shipments between facilities. Safeguarded shipments from one state to another would present similar possibilities on another level. At these last two levels, however, the information system needed to track these flows could be quite complex and difficult to develop. There are problems in inaccuracies, delays and incomplete reporting of such shipments in the Agency's systems, whether within or across states. The deficiencies in the reporting system, whether as designed or as performed, allow the possibility of collusion between a shipper and a receiver. Similar difficulties could be expected in the case of a chemical weapons ban. There is no doubt that measurement problems will be much more severe with respect to chemical production and transfers because of the much larger volumes of materials involved and the greater complexities of the chemical industry. An understanding of such problems and Agency efforts to deal with them in the nuclear field would be instructive.

It should also be noted that, for both nuclear weapons and chemical weapons production, the monitoring of other activities could be useful. Preparations for the use of chemical weapons, for example, would require specialized equipment, munitions and training for armed forces, the