Operating Procedures for Conducting Monetary Policy

R. Alton Gilbert

Within the Federal Reserve System, the body that determines the nation's monetary policy is the Federal Open Market Committee (FOMC). The FOMC meets several times each year, specifying targets for the federal funds rate and money growth over the period until the next scheduled meeting. Twice each year, in February and July, the FOMC also announces its annual objectives for growth of the monetary aggregates. The Committee began setting targets for the growth rates of the monetary aggregates in 1970, because of a growing recognition of the effects of money growth on total spending and inflation. The FOMC also gives some weight to the short-run stability of interest rates, expressed as ranges for the federal funds rate.

After the FOMC determines the objectives for monetary policy, the task of implementing the policy is delegated to the staff of the Open Market Desk at the Federal Reserve Bank of New York. The Open Market Desk does this by buying and selling federal government securities for the Federal Reserve System. It increases reserves of the banking system by buying additional government securities and decreases reserves by selling securities.

The FOMC's instructions to the Open Market Desk also include a procedure that it should use to implement monetary policy. This paper identifies three distinct procedures used by the Open Market Desk since 1970. The purpose of the paper is to describe the mechanics of these three operating procedures, identifying the steps followed by the Open Market Desk in determining the amount of reserves to supply through open market operations.

The first procedure, which was used in the 1970s, involved targeting on the federal funds rate; the Open Market Desk would supply the level of reserves necessary to keep the federal funds rate within ranges specified by the FOMC for periods between meetings. The next procedure, used during the three years ending in October 1982, involved targeting on levels of nonborrowed reserves (reserves other than those borrowed from Federal Reserve Banks); these were based on the FOMC objectives for the money stock. This procedure allowed for wider short-run fluctuations in the federal funds rate. Under the final procedure, in effect since October 1982, the objective of the Open Market Desk in each reserve maintenance period is to keep the total of reserves borrowed by depository institutions from Federal Reserve Banks near some desired level. The
desired level of borrowings reflects the desired degree of reserve restraint specified by the FOMC at each meeting.

**BASIC TOOL FOR EXPOSITION: SUPPLY AND DEMAND FOR RESERVES**

The mechanics of the implementation of monetary policy under the three operating procedures can be described by analyzing the market for total reserves of depository institutions. These reserves include currency that depository institutions hold in their vaults and reserve balances they hold at Federal Reserve Banks. Depository institutions hold reserves to facilitate their customers' transactions and to meet reserve requirements imposed by the Federal Reserve. The required reserves are based on the amount and composition of their deposit liabilities.

Because they earn no interest on reserves, there is an opportunity cost for depository institutions to hold them. The opportunity cost is identified in this paper as the federal funds rate, the interest rate that depository institutions charge each other for lending reserves. If a depository institution must increase its reserves, it borrows at the federal funds rate; if it can reduce its reserves, it lends at the federal funds rate.

In the three figures used in this paper, the demand for reserves by depository institutions is drawn as a function of the federal funds rate. Reserve requirements on those deposits included in the money stock create a close relationship between the demand for money by the public and the demand for reserves by depository institutions. The demand for money is assumed to be a function of total spending in the economy and interest rates. Various influences can cause shifts in the demand curve for reserves. A change in total spending in the economy, which influences the demand for money, would cause the demand curve for reserves to shift. Shifts in the demand for reserves could also reflect changes in the random component of money demand, a change in the average reserve requirement on deposit liabilities included in the money stock or a change in the demand for excess reserves.

The factors that influence the supply of reserves can be analyzed by considering separately the determinants of borrowed and nonborrowed reserves. Nonborrowed reserves (NBR) are determined by the open market operations of the Open Market Desk.

The amount of reserves borrowed from Federal Reserve Banks is influenced by the spread between the federal funds rate and the discount rate, and by the conditions set by the Federal Reserve for permitting depository institutions to borrow reserves. If the discount rate is above the federal funds rate, the amount of reserves borrowed from Federal Reserve Banks tends to be relatively low and insensitive to small changes in the federal funds rate. The supply curve for reserves reflects this observation. The supply curve is drawn as a vertical line from the level of NBR (labeled N in the figures) up to the level on the vertical axis at which the federal funds rate equals the discount rate, indicated as \( r_f = r_d \).

The shape of the supply curve in the range in which the federal funds rate exceeds the discount rate depends on the conditions under which Federal Reserve Banks permit depository institutions to borrow reserves. If the Federal Reserve did not set limits on borrowings, no institution would pay more than the discount rate to borrow reserves in the federal funds market. In that case, the relevant supply curve in the range of the horizontal axis above NBR would be horizontal at the level of the federal funds rate equal to the discount rate.

The relevant supply curve is not horizontal, however; instead, it slopes upward, like the curves in the three figures labelled \( S_r \), \( S_s \), and \( S_s \). The shape of each supply curve reflects a method of nonprice rationing of borrowed reserves among depository institutions. These supply curves differ only by the amount of NBR; each curve reflects the same method of nonprice rationing of borrowed reserves.

The Federal Reserve rations borrowed reserves by setting limits on the borrowings by each depository institution. These limits are set in terms of (1) the amounts borrowed relative to the required reserves of the depository institution and (2) the frequency and duration of its borrowings. Depository institutions try to avoid exceeding these borrowing limits to ensure that they will have access to credit to cover short-term liquidity requirements. If a depository institution borrows now, it will be subjected to greater administrative pressure to limit its borrowings in the future, when

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Footnote: Federal funds brokers facilitate the operation of the federal funds market. These brokers receive orders from depository institutions located throughout the nation to lend or borrow reserves, and the brokers match lenders and borrowers at mutually agreeable interest rates. Most of the transactions through the federal funds market involve borrowing and lending reserves for one day. The transfers of reserves to borrowers are made the same day through wire transfer systems, including the Fed Wire of the Federal Reserve System.
the attractiveness of borrowing from the discount window might be greater. Consequently, it takes an increase in the spread between the federal funds rate and the discount rate to induce depository institutions to increase their borrowings from the discount window. The slope of each supply curve reflects this relationship between borrowings and the interest rate spread.

The three figures in this paper illustrate short-run relationships between the supply and demand for reserves. In figure 1, the relevant time period is a one-week reserve maintenance period. The relevant time period for figure 2 is a few weeks between FOMC meetings. For figure 3, which illustrates the current operating procedure, the time period is a two-week reserve maintenance period. Reserve maintenance periods were lengthened from one week to two weeks in February 1984, when the Federal Reserve adopted contemporaneous reserve requirements.

Given its short-run focus, this paper does not present a complete analysis of the money supply process under each operating procedure. The more limited purpose of this paper is to describe how open market operations are determined under each operating procedure for a given short time period. The following sections indicate how the short-run analysis of each operating procedure would fit into a more complete analysis of the money supply process.

TARGETING ON THE FEDERAL FUNDS RATE: 1970 THROUGH SEPTEMBER 1979

The Federal Reserve attempted to control the money stock during the 1970s by confining the federal funds rate to relatively narrow ranges, specified at each FOMC meeting. The use of this procedure was based on the assumption of a stable demand function for money. As indicated previously, money demand is assumed to be a function of interest rates and total spending in the economy. For the period of a few weeks between FOMC meetings, total spending is assumed to be independent of current policy actions. The Federal Reserve attempted to control the money stock through its influence on interest rates by moving the public up or down its demand for money schedule.

The Statement of FOMC Objectives

At each meeting, the FOMC stated its growth objectives for the monetary aggregates as ranges from the average of the month before the meeting to the average of the month of the next scheduled meeting. For instance, on September 18, 1979, the last meeting under this operating procedure, the FOMC’s objective for M1 was a growth rate between 3 percent and 8 percent from August through October.

At each meeting, the FOMC directed the Open Market Desk of the Federal Reserve Bank of New York to keep the federal funds rate within a range of about 50 to 100 basis points until the next meeting, and often specified an initial level for the federal funds rate within the target range. The manager of the Open Market Desk was authorized to let the federal funds rate move toward the top or bottom of the specified range if the money stock was tending to rise above or fall below that desired by the FOMC. The Open Market Desk supplied the amounts of NBR necessary to keep the federal funds rate within the target range. Occasionally, the FOMC changed the range for the federal funds rate in conference calls held between scheduled meetings if the money stock was tending to deviate substantially from its objective.

The Implementation of FOMC Directives

The conduct of monetary policy under this procedure is illustrated in figure 1. At one of its scheduled meetings, the FOMC would specify an initial level for the federal funds rate for the period immediately after the meeting \( r_n \) and a range for the rate until the next scheduled meeting \( r_n - r_{n+1} \). The Open Market Desk would then specify the procedures for the monetary aggregates as ranges from the effects of other policy actions on the supply and demand for reserves. An increase (decrease) in the discount rate would cause the upward-sloping part of the supply curve to rise (fall). Changes in the conditions for borrowing reserves would change the slope of the supply curve in the range in which the federal funds rate exceeds the discount rate. Finally, a change in the reserve requirement ratios would cause the demand curve to shift.

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3A reserve maintenance period is a period over which daily average reserves must equal or exceed daily average required reserves to avoid a penalty for reserve deficiency.
Targeting on the Federal Funds Rate

The demand for reserves in the first week after the FOMC meeting is denoted by the curve $D_1$. The Open Market Desk would supply NBR equal to $N_1$ to keep the federal funds rate at $r_1$. Suppose there was a large increase in the demand for reserves in the second week, represented by the shift in the demand curve from $D_1$ to $D_2$. This increase in the demand for reserves would reflect an increase in the demand for money. To accommodate the increase in the demand for reserves, the Open Market Desk would increase NBR in order to keep the federal funds rate in the target range set by the FOMC. In figure 1, the Desk would increase the supply of NBR to $N_2$ to keep the federal funds rate at $r_2$.

If, however, the money stock was tending to rise above the desired range of the FOMC, the Desk might have increased NBR to only $N_1$, thus allowing the federal funds rate to rise to the top of the range ($r_1^*$). Any authorization for the Open Market Desk to allow an additional rise in the federal funds rate before the next scheduled FOMC meeting would require an FOMC conference call to specify a new range for the federal funds rate.

Discussions of the advantages of this operating procedure usually emphasize how the Federal Reserve could prevent transitory fluctuations in the federal funds rate, while controlling the growth rate of the money supply over a quarter of a year or longer, periods that are relevant for stabilizing economic activity. One cause of transitory fluctuations in the federal funds rate was Open Market Desk errors in measuring NBR in the current week. The Federal Reserve had to estimate several factors that influence NBR, such as balances of the U.S. Treasury at Federal Reserve Banks and Federal Reserve float. If, however, the Federal Reserve made large errors in estimating the current level of NBR, this procedure would offset those errors automatically. For instance, if actual NBR fell below Federal Reserve estimates, the federal funds rate would tend to rise above the target rate, and the Open Market Desk would respond by buying additional securities, thus increasing NBR.

Another type of transitory effect on interest rates would be a transitory shift in the demand for total reserves. The demand for total reserves may shift for various reasons. There may be random fluctuations in the demand for money, average reserve requirements or excess reserves. Under this procedure, the Open Market Desk would offset the effects of such transitory shifts in the demand for reserves by adjusting the level of NBR to keep the federal funds rate unchanged.

The effects of transitory shifts in the demand for total reserves are illustrated in figure 1. The demand for reserves is illustrated by the curve $D_1$ in the first

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Under lagged reserve requirements, each maintenance period covered seven days ending each Wednesday. Required reserves for each maintenance period were based on deposit liabilities in the maintenance period two weeks earlier. Under the contemporaneous reserve requirements currently in effect, each maintenance period covers 14 days ending every other Wednesday. The required reserves of each depository institution on its checkable deposits are based on its average checkable deposits over a 14-day period ending two days before the end of the current maintenance period. See Gilbert and Trebing (1982) for a description of lagged and contemporaneous reserve requirements.
week after an FOMC meeting, D₁ in the second week, and D₂ again in the third week. If the Open Market Desk kept NBR at N, throughout the three-week period, the federal funds rate would be r₁ in week 1, r₂ in week 2, and would fall back to r₃ again in week 3. The Open Market Desk would avoid these fluctuations in the federal funds rate by accommodating the random fluctuations in demand for reserves. Following this policy of accommodation, NBR would be N₁ in the first week, N₂ in the second week, and N₃ again in the third week.

The Role of the Operating Procedure in the Money Supply Process

The position of the supply curve for reserves in a given maintenance week had little effect on the quantity of reserves supplied, because required reserves in each week were based on the deposits of two weeks earlier. The position of the supply curve did influence the level of the federal funds rate. In attempting to control the money supply, the Federal Reserve relied on the influence that changes in the federal funds rate would have on other interest rates and the influence of interest rates on the quantity of money demanded in the future. Money demand was assumed to be influenced by lagged values of interest rates. A more thorough treatment of the money supply process under this operating procedure would require an analysis of the effects of policy actions over several reserve maintenance periods. The multiperiod analysis would include changes in the FOMC’s federal funds rate objectives in response to deviations of the money stock from desired levels and the lagged effects of changes in interest rates on money demand.

The major problem with this procedure was that, in attempting to stabilize the federal funds rate, the Federal Reserve could miss its targets for the money stock for periods long enough to affect total spending in the economy. A shift in the demand for reserves may have indicated that the federal funds rate must be allowed to change if the Open Market Desk is to supply the level of reserves that is consistent with FOMC objectives for the monetary aggregates. An increase in the demand for reserves may have reflected a rise in the rate of total spending in the economy, which would cause the demand for money to rise. By targeting on a fixed level of the federal funds rate in such circumstances, the Federal Reserve may conduct a procyclical monetary policy — increasing (decreasing) the level of total reserves in response to a rise (fall) in the rate of total spending.

TARGETING ON NONBORROWED RESERVES: OCTOBER 1979 THROUGH SEPTEMBER 1982

On October 6, 1979, the FOMC abandoned the procedure of targeting on the federal funds rate in favor of an NBR operating procedure. Most of the FOMC members concluded that the degree of monetary control under the previous procedure had become unsatisfactory. They decided to adopt, instead, a procedure in which the objective of open market operations was to supply the amount of reserves consistent with their objectives for money growth, while permitting larger fluctuations in the federal funds rate. ⁷

The Statement of FOMC Objectives

One of the changes adopted at the meeting on October 6, 1979, involved the way the FOMC stated its objectives for the growth of the monetary aggregates for periods between scheduled meetings. The FOMC began stating its objectives as a specific percentage growth rate for each monetary aggregate from a month before the meeting to some future month. For instance, the objective for M₁ adopted on October 6, 1979, was an annual growth rate of 4.50 percent from September to December 1979.

Although the FOMC continued to specify ranges for the federal funds rate, those ranges were widened significantly. For most periods, the range was 400 basis points, compared with ranges of 50 to 100 basis points under the procedure of targeting on the federal funds rate. These wide ranges on the federal funds rate played a minor role in the implementation of monetary policy under the new NBR operating procedure. In fact, on several occasions the FOMC widened its ranges between scheduled meetings when the rate threatened to move outside the previously established limits. On other occasions, the federal funds rate was allowed to move outside its range for short periods of time. ⁸

The Implementation of FOMC Directives

After each FOMC meeting, the Federal Reserve staff estimated the average level of total reserves that would be necessary to support the money stock desired by the FOMC. That average level was called the total re-

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serve path. Estimates of the total reserves path were based on (1) FOMC objectives for M1 and M2 and (2) estimates of the average reserve requirements on deposit liabilities in M1 and M2, currency, required reserves on liabilities of depository institutions not included in M1 or M2, and excess reserves. The staff generally re-estimated the total reserves path each week.

At each meeting, the FOMC made an assumption about the average level of borrowed reserves over the period until the next scheduled meeting. The FOMC’s borrowings assumption was often near the average level of borrowings just before the meetings. The staff determined the level of NBR on which the Open Market Desk targeted open market operations (called the NBR path) by subtracting the FOMC’s borrowings assumption from the total reserves path.

The implementation of monetary policy under this operating procedure is illustrated in figure 2. In contrast to the procedure illustrated in figure 1, the Open Market Desk would not increase the level of NBR in response to an increase in the demand for reserves; it might actually decrease NBR to keep total reserves near its path level.

Levels of total reserves and NBR on the horizontal axis refer to average levels for the weeks between FOMC meetings. The total reserves path is illustrated as $R^*$. The NBR path is $N_r$, since the FOMC set the borrowings assumption at $R^*$ minus $N_r$.

The demand curves for reserves represent the relationship between the federal funds rate and the average quantity of reserves demanded over a few weeks between FOMC meetings. Since the time period is a few weeks, required reserves are not predetermined but may be influenced by policy actions of the current period. A rise in the federal funds rate, for instance, might cause the quantity of money demanded to decline and, therefore, cause required reserves to decline. For these reasons, the demand curves have a flatter slope in figure 2 than in figure 1.

Total reserves would be at the path level $R^*$ if the demand curve for reserves was $D_r$. From that initial position, consider the effects of an increase in the demand for reserves, illustrated by a shift in the demand curve to $D_r'$, which resulted from an increase in the demand for money. Total reserves would rise to $R_r$, above the total reserves path, and the federal funds rate would rise from $r_f$ to $r_f'$. Without any additional policy actions, the money stock would exceed the FOMC’s objectives because total reserves would be above the path level. For a given rise in the demand for reserves, however, the amount by which the money stock would exceed the FOMC objective would be smaller under this operating procedure than if the Open Market Desk had supplied the reserves necessary to keep the federal funds rate unchanged at $r_f$.

During some periods between FOMC meetings, the Federal Reserve adjusted the level of the NBR path or the discount rate to reduce the deviations of the money stock from desired levels." The Federal Reserve took those policy actions when the deviations appeared to reflect more than a transitory movement in the money demand schedule, perhaps due to strengthening of aggregate spending.

Adjustments to the NBR path or discount rate be

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*Lindsey (1982, 1983, 1984) describes how the procedure of targeting on NBR worked in practice by examining the timing of money growth relative to FOMC objectives, borrowed reserves, the federal funds rate and the discount rate.

*The Federal Reserve Bank of New York presents a detailed description of open market operations throughout each calendar year in the spring or summer issues of its Quarterly Review in the following year. Those reports indicate several occasions on which the NBR target or the discount rate were changed when the staff projected that total reserves would deviate substantially from the path levels.

*See Lindsey (1983), p. 5.
between FOMC meetings were based on projections of total reserves. After each FOMC meeting, the staff estimated the actual level of total reserves over the weeks until the next meeting, as well as the total reserves path, which was based on FOMC objectives for money growth. The estimates of total reserves were based on projections of the actual (in contrast to the desired) money stock, average reserve requirements and excess reserves, given the existing discount rate and NBR path. A substantial deviation between the staff estimate of actual total reserves and the total reserves path indicated that additional adjustments to the discount rate or NBR path would be necessary to keep the money stock close to the FOMC objectives.

In the situation illustrated in figure 2, the staff projects total reserves to be $R_n$, which is above the total reserves path ($R^*$). The policy action illustrated in figure 2 is a reduction in the NBR path relative to the total reserves path (an increase in the borrowings assumption). Total reserves are constrained to be at the path level by reducing the NBR path to $N^*_r$, causing the federal funds rate to rise to $r^*_r$.

**The Role of the Operating Procedure in the Money Supply Process**

By adopting the NBR targeting procedure, the FOMC changed the basic relationship on which the money supply process was based. The prior procedure of targeting on the federal funds rate relied on a stable demand function for money. The second procedure of targeting on NBR relied on a relationship between reserves and the money stock. Path levels for total reserves and NBR were re-estimated weekly to incorporate the most current information available on the relationship between reserves and the money stock.

**TARGETING ON BORROWED RESERVES: OCTOBER 1982 TO THE PRESENT**

**The Statement of FOMC Objectives**

At a meeting in October 1982, the FOMC temporarily suspended its short-run objectives for M1. The event that precipitated the de-emphasis of M1 was the matur- ing of a large volume of all-savers certificates in October 1982, which might have had a temporary effect on money demand. Also, movements of funds into and out of M1 were about to be affected in uncertain amounts by the scheduled introduction of a couple of monthly money-market-type accounts at banks and thrift institutions. The de-emphasis of M1 continued after these events because of an observed change in the relationship between the money stock and total spending in the economy.19

Suspending short-run objectives for M1 made it necessary to change the operating procedure for implementing monetary policy. The procedure of targeting NBR as described previously gave considerable weight to the FOMC’s objective for M1, since a large proportion of required reserves are against the deposit liabilities in M1. The total reserves path could not be estimated on the basis of the FOMC’s objectives for M2 and M3 without an assumption or target for M1 over the intermeeting period. The FOMC has resumed the practice of specifying short-run objectives for M1 but has not directed the Open Market Desk to resume use of the procedure of targeting NBR.

In place of the NBR procedure, the Federal Reserve adopted a procedure for targeting on borrowed reserves. At each meeting, the FOMC states its objectives for open market operations in terms of degrees of reserve restraint. The directive from the FOMC to the Open Market Desk calls for more restraint, less restraint, or for the degree of reserve restraint to be unchanged. In some directives, the FOMC also states conditions for changing the degree of reserve restraint in the period before the next scheduled meeting, such as deviation of the rate of money growth from desired rates or developments in the economy.

The Open Market Desk interprets the objectives of the FOMC for the degree of reserve restraint in terms of the average level of seasonal plus adjustment borrowings over the intermeeting period.19 More restraint would imply a higher level of borrowings and less

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19This description of the procedure of targeting on borrowed reserves is based on Wallich (1984).

18See Axilrod (1985), pp. 18–19.

19See Wallich (1984), p. 26. Adjustment borrowings are short-term loans from Federal Reserve Banks to depository institutions to aid them in adjusting their reserves to required levels. Most institutions repay their adjustment borrowings within a few days. Seasonal borrowings are longer-term loans to depository institutions that have relatively strong seasonal patterns in their loan demand or deposits. Other borrowings are called extended credit, which is made available to institutions experiencing such severe financial difficulties that they have a hard time attracting funds from other sources. The target for borrowings under the current operating procedure is in terms of the sum of seasonal plus adjustment borrowings. Extended credit is considered a relatively fixed supply of reserves, which is not as sensitive to the spread between the federal funds rate and the discount rate as seasonal and adjustment borrowings are. Extended credit is counted as part of nonborrowed reserves for purposes of implementing monetary policy under the current operating procedure.
Targeting on Borrowed Reserves

The implementation of FOMC Directives

The staff estimate total reserves at the level R_t. With the target level for borrowed reserves equal to F_t minus N_t, the Open Market Desk plans to supply NBR of N_t, which would yield an average federal funds rate of r_t. Suppose later in the period, the staff raises the estimate of total reserves to R_t. In response, the Open Market Desk raises its objective for NBR to N_t to keep R_t minus N_t equal to the original target level of F_t minus N_t. This response to a rise in the demand for reserves would keep the federal funds rate unchanged at r_t.

The increase in the estimate of total reserves from F to R_t may reflect a larger increase in the money stock than desired by the FOMC. If the FOMC directive calls for an increase in the degree of reserve restraint in the event of this undesired rise in the money stock, the Open Market Desk would increase its target level for borrowings. The implications of an increase in the target for borrowed reserves can be illustrated by reference to figure 3. In response to the increase in the estimate of total reserves from R_t to R_t, the Open Market Desk increases the supply of NBR above N_t, but not as much as N_t. In that case, the federal funds rate would rise above r_t. This response to an undesired rise in the money stock is similar to the response under the procedure of targeting on the federal funds rate when the Open Market Desk allowed the federal funds rate to rise to the top of its range.
The Role of the Operating Procedure in the Money Supply Process

The current operating procedure has been described by one member of the FOMC as "an indirect method of influencing the funds rate and other short-term rates which, in turn, affect the demand for money." Thus, like the procedure of targeting on the federal funds rate, the current method of controlling the money stock depends upon the influence of policy actions on interest rates and the assumption of a stable relationship between interest rates and the quantity of money demanded.

The similarity of the procedures of targeting on the federal funds rate and targeting on borrowed reserves is illustrated by examining the response of the Open Market Desk in supplying NBR to a shift in the demand for reserves. In targeting on borrowed reserves, the Open Market Desk responds to shifts in the demand for reserves in a manner similar to its response under the federal funds rate targeting procedure. The similarity is illustrated by comparing the response of the supply of NBR to a shift in demand for reserves in figures 1 and 3. In both figures, the quantity of NBR supplied is increased in response to an increase in the demand for reserves, although the federal funds rate might be allowed to rise in response to an undesired rise in the money stock. Figure 2 indicates, in contrast, that under the NBR targeting procedure, the Open Market Desk keeps NBR unchanged or reduces them when there is an increase in the demand for reserves that reflects an increase in the demand for money.

CONCLUSIONS

The Federal Reserve currently implements monetary policy by targeting open market operations on average levels of reserves borrowed from Federal Reserve Banks. This procedure, in effect since October 1982, has some features in common with the prior two procedures used for implementing monetary policy. Like the procedure of targeting on nonborrowed reserves, in effect from October 1979 until October 1982, the official range for the federal funds rate is several hundred basis points wide. Open market operations are not conducted with the objective of keeping the federal funds rate at a specific level, as they were under the procedure of targeting on the federal funds rate used for several years prior to October 1979.

The current procedure, however, has other similarities to the procedure of targeting on the federal funds rate. There is no direct relationship between the objectives of the Federal Open Market Committee for the monetary aggregates and the supply of nonborrowed reserves, as there was under the procedure of targeting on nonborrowed reserves. Under the current procedure and that of targeting on the federal funds rate, the supply of nonborrowed reserves responds to shifts in the demand for reserves within a given reserve maintenance period in such a way that these shifts have little effect on the federal funds rate. Over longer periods, however, the federal funds rate might be allowed to move in the same direction as an undesired change in the money stock under both of those procedures.

REFERENCES


